

weather, at other times colder weather. If each observer will record the time at which the winds and clouds change direction, and will also record either the temperatures or the fact of changes from cold to warm, he will enable the student of this matter to draw systems of lines showing the front of the chinook and the opposing front of the cold wave at any time. It is believed that between these two fronts there is an intermediate belt of neutral ground that may be 5 or 50 miles wide, the location of which is important in regulating the display of cold wave signals. The chinook appears sometimes to pass overhead over a broad strip of country and descend some distance beyond, but is eventually pushed back to the mountains. Thus in November, 1894, the chinook began at Havre (Fort Assiniboine), 60 miles northeast of Fort Benton, on the 13th at 11 p. m., but at Helena, southwest of Fort Benton, on the 14th, at 9 a. m. In this case the whole northwestern corner of Montana was first filled by the warm southwest chinook, which was then pushed southward by underflowing cold northwest winds from Alberta.

The study of the exact extent and progress of the chinook is hindered by the fact that many of our voluntary observers

fail to make a complete record of the phenomena that they observe, so that only fragments of knowledge come to our hands, while the observer knows by experience many important local details. The whole subject can best be studied by plotting upon a series of contour maps the detailed records that we hope to receive from our observers in that section.]

CONTRIBUTIONS TO THE WEATHER REVIEW.

In order that all the observers and officials of the Weather Bureau may profit by the numerous interesting observations that are frequently made in distant parts of the country, the Chief of the Bureau has authorized the issue of a circular letter, No. 17, of 1895, from which the following extract is made:

By direction of the Chief of Bureau, I am requested to say that any short article that you may desire to offer for publication in the MONTHLY WEATHER REVIEW will be taken into favorable consideration. Papers that are too technical for publication in the daily newspapers or popular journals, or in the monthly bulletins of the State Weather Services, or those that relate to matters of general rather than local interest, are appropriate to the MONTHLY WEATHER REVIEW.

If the article should not be accepted for the REVIEW, it will be returned to you, with such suggestions, relative to its publication, as may seem proper to the Chief.

METEOROLOGICAL TABLES.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only the 8 p. m. observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation.

Table II gives, for about 2,400 stations occupied by voluntary observers, the extreme maximum and minimum temperatures, the mean temperature deduced from the average of all the daily maxima and minima, or other readings, as indicated by the numeral following the name of the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (....).

Table III gives, for about 30 Canadian stations, the mean pressure, mean temperature, total precipitation, prevailing wind, and the respective departures from normal values. Reports from Newfoundland and Bermuda are included in this table for convenience of tabulation.

Table IV gives, for 29 stations, the mean hourly temperatures deduced from thermographs of the pattern described and figured in the Report of the Chief of the Weather Bureau, 1891-'92, p. 29.

Table V gives, for 28 stations, the mean hourly pressures as automatically registered by Richard barographs, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau, 1891-'92, pp. 26 and 30.

Table VI gives, for 136 stations, the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891-'92, p. 19.

Table VII gives the danger points, the highest, lowest, and

mean stages of water in the rivers at cities and towns on the principal rivers; also the distance of the station from the river mouth along the river channel.

Table VIII gives the maximum, minimum, and mean readings of the wet-bulb thermometer for 135 stations, as determined by observations of the whirled psychrometer at 8 a. m. and 8 p. m., daily.

The difference between mean local time and seventy-fifth meridian time is also given in the table.

Table IX gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in any geographical division one may obtain the average resultant direction for that division.

Table X gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table XI gives, for 38 stations, the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated, respectively, the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

Table XII gives the records of hourly precipitation as reported by stations equipped with automatic gauges, of which 37 are known as float gauges and 7 as weighing rain and snow gauges.

Table XIII gives the record of excessive precipitation at all stations from which reports are received.

Table XIV gives a record of the heaviest rainfalls for periods of five and ten minutes and one hour, as reported by regular stations of the Weather Bureau furnished with self-registering rain gauges.

Additional information concerning the tables will be found in the January, 1895, REVIEW.

TABLE I.—Climatological data for Weather Bureau Stations, November, 1895.

Stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.				Wind.		Monthly temperature data since opening station.						
			Mean pressure, 8 a.m. and 8 p.m. + 2. Mean reduced.		Departure from normal.		Mean maximum.		Minimum.		Greatest daily range.		Mean temperature of the dew-point, per cent.		Precipitation, in inches.		Total movement, miles.		Cloudy days.	Average cloudiness, tenths.	Absolute maximum.
			Date.	Maximum.	Date.	Minimum.	Date.	Maximum.	Date.	Minimum.	Date.	Mean relative humidity, per cent.	Departure from normal.	Days with 30, or more.	Miles per hour.	Direction.	Year.	Year.	Year.		
<i>New England.</i>																					
Eastport	76	23	30.05	30.14	.17	43.7	2.1	39.8	2.4	61	8	45	14	22	34	28	33	78	5.83	1.8	1888
Portland, Me.	108	24	30.03	30.18	.13	40.0	2.2	39.7	2.3	69	8	47	14	22	33	23	34	78	6.41	1.8	14
Northfield	872	9	29.20	30.17	.14	34.8	1.0	36.6	7	44	0	47	12	22	33	23	34	78	7.18	2.0	10
Boston	125	26	30.03	30.17	.14	45.4	2.7	73	7	53	21	42	13	31	31	38	78	5.68	2.6	15	
Nantucket	14	10	30.16	30.17	.10	47.2	2.6	76	8	52	26	42	13	35	24	43	84	8.07	3.4	16	
Woods Hole	18					48.2	1.9	62	26	51	25	42	13	35	24	43	84	4.86	1.4	17	
Vineyard Haven	10					48.8	3.0	66	19	56	24	42	13	35	24	43	84	4.61	0.5	13	
Block Island	27	16	30.15	30.18	+ .12	46.8	1.1	65	8	53	24	37	13	35	26	37	84	5.77	2.5	14	
Narragansett Pier	14					44.8	1.8	70	8	53	24	37	13	35	26	37	84	5.81	1.9	14	
New Haven	107	23	30.05	30.17	+ .10	43.6	1.7	65	8	51	24	37	13	35	26	37	84	5.09	1.2	15	
<i>Mid. Atlan. States.</i>						47.1	0.9	40.8	0.2	70	8	48	17	22	33	34	35	84	2.89	0.4	10
Albany	85	22	30.08	30.19	.12	40.8	0.3	70	8	48	17	22	32	33	34	35	84	4.78	1.7	13	
New York	314	26	29.84	30.18	.10	46.0	0.8	73	9	53	24	37	13	35	26	37	84	3.58	0.1	12	
Harrisburg	377	8	29.79	30.21	.07	44.0	1.6	74	9	51	24	37	13	35	26	37	82	1.72	1.3	12	
Philadelphia	117	25	30.07	30.19	+ .08	46.8	1.7	74	9	54	26	37	13	35	26	37	82	2.82	1.9	12	
New Brunswick	9					45.4	2.2	74	9	54	26	37	13	35	26	37	78	3.93	0.8	14	
Baltimore	142	25	30.04	30.19	+ .07	47.1	0.0	77	9	54	26	37	13	35	26	37	74	1.86	1.3	10	
Washington	112	26	30.09	30.21	+ .08	48.4	0.0	79	9	55	26	37	13	35	26	37	81	4.07	0.9	13	
Cape Henry	33					52.6	0.5	79	9	55	26	37	13	35	26	37	81	5.77	2.5	14	
Lynchburg	685	25	29.46	30.21	+ .07	48.8	0.6	76	8	55	24	39	13	35	26	37	81	2.763	8	10	
Norfolk	57	25	30.12	30.19	+ .07	53.1	0.9	80	9	60	24	39	13	35	26	37	82	6,205	4.31	0.3	
<i>S. Atlantic States.</i>						55.6	0.3	51.0	0.4	76	8	60	25	21	42	26	40	74	3.55	0.4	11
Charlotte	773	18	29.35	30.19	+ .05	51.0	-0.4	76	8	60	25	21	42	26	40	74	3.89	0.9	8		
Hatteras	11	15	29.16	30.16	.05	57.4	1.2	77	9	60	25	21	50	24	50	54	7.78	2.6	12		
Kittyhawk	9	21	30.13	30.14	.06	54.6	0.9	77	9	60	25	21	50	24	50	58	5.88	1.8	16		
Raleigh	388	9	29.78	30.21	.04	51.2	1.4	75	9	60	26	21	42	30	42	42	2.84	0.7	10		
Wilmington	78	25	30.09	30.18	.06	56.0	0.2	80	10	64	31	21	48	30	49	49	3.38	0.8	13		
Charleston	52	25	30.14	30.19	+ .06	56.1	0.8	80	5	65	37	21	52	19	51	51	84	2.41	0.8	18	
Columbia	9					54.0	0.9	82	10	65	26	21	43	37	47	47	1.71	0.8	3		
Augusta	180	24	29.99	30.19	.06	54.4	1.0	82	9	65	31	27	44	34	44	44	78	2.01	1.3	7	
Savannah	36	25	30.07	30.18	.03	58.1	1.1	82	9	65	34	27	50	26	49	49	82	3.74	1.6	9	
Jacksonville	43	25	30.10	30.15	+ .03	61.0	2.2	84	9	69	35	27	53	33	38	38	82	8.12	0.5	13	
<i>Florida Peninsula.</i>						71.3	0.3	73.0	0.2	88	11	78	46	21	66	66	82	2.27	0.4	12	
Jupiter	126	8	30.05	30.08	- .03	72.0	0.2	88	11	78	46	21	66	66	66	66	82	4.80	1.4	12	
Key West	122	26	30.05	30.07	+ .01	74.8	0.6	85	10	78	63	21	71	14	14	14	82	0.24	2.4	6	
Tampa	36	6	30.09	30.13		67.0	0.4	84	8	76	42	21	51	16	24	24	82	1.78	0.1	10	
<i>East Gulf States.</i>						57.4	0.7	77	8	76	45	27	55	19	27	27	82	1.23	2.8	8	
Atlanta	1,181	18	28.98	30.19	+ .03	59.4	0.5	77	9	61	26	27	41	27	45	45	82	1.04	3.0	7	
Pensacola	56	17	30.11	30.17	.04	58.7	1.1	75	9	66	38	27	51	26	38	38	82	1.27	3.1	5	
Mobile	57	25	30.18	30.20	+ .06	57.7	1.0	75	9	66	31	27	49	30	49	49	82	0.60	3.5	5	
Montgomery	221	24	29.94	30.18	.03	55.8	0.9	73	26	27	46	27	48	37	48	48	82	0.87	2.8	5	
Meridian	358	7	29.79	30.18		54.6	1.2	73	26	27	44	36	44	34	44	44	82	1.97	1.4	6	
Vicksburg	254	25	29.88	30.15	+ .06	56.9	1.5	73	26	27	45	31	31	44	44	44	82	2.74	2.2	6	
New Orleans	54	25	30.12	30.18	+ .06	60.5	1.2	81	24	27	53	27	31	50	50	50	82	0.69	3.8	4	
Port Suds.	10					62.4	2.4	73	24	27	58	27	31	55	55	55	82	4.51	2.4	4	
<i>West Gulf States.</i>						55.4	2.4	51.0	2.1	77	6	61	26	27	41	27	42	82	4.61	0.5	4
Shreveport	249	25	29.88	30.15	+ .01	54.5	0.3	80	18	64	29	27	45	33	45	45	82	6.06	1.2	8	
Fort Smith	481	14	29.60	30.18	+ .04	48.0	3.4	74	6	60	29	27	45	35	45	45	82	3.25	2.2	9	
Little Rock	302	17	29.88	30.16	+ .02	50.2	1.5	76	18	65	32	27	51	30	51	51	82	5.26	0.3	7	
Corpus Christi	20	9	30.10	30.14	+ .03	61.6	2.1	81	21	78	32	27	66	30	66	66	82	7.05	2.5	11	
Galveston	42	25	30.12	30.16	+ .04	61.0	2.7	76	8	66	37	26	66	35	66	66	82	4.80	2.8	6	
Palestine	510	14	29.60	30.16	+ .01	54.7	2.7	79	18	64	45	27	53	27	53	53	82	4.23	0.4	12	
San Antonio	704	17	29.40	30.16	+ .03	56.0	1.0	76	17	68	32	29	66	35	45	45	82	3.39	1.3	13	
<i>Ohio Val. & Tenn.</i>						46.6	0.3	51.5	0.3	77	6	61	26	27	42	42	82	3.74	0.0	6	
Chattanooga	762	17	29.39	30.21	+ .05	51.5	0.3	74	6	61	26	27	42	34	40	40	82	1.71	2.6	6	
Knoxville	980	25	29.14	30.21	+ .03	49.4	1.0	74	6	60	26	27	38	33	38	38	82	1.90	2.2	9	
Memphis	399	25	29.73	30.17	+ .03	51.5	0.9	76	7	68	26	27	41	41	41	41	82	5.54	0.7	12	
Nashville	545	25	29.58	30.17	+ .04	49.8	0.9	76	7	68	26	27	40	36	39	39	82	5.14	1.8	6	
Lexington	969	18	29.05	30.16	+ .05	45.0	-1.1	73	7	53	26	27	36	38	35	35	82	9.07	0.9	17	
Louisville	525	25	29.58	30.17	+ .04	45.7	0.9	74	6	54	26	27	35	35	35	35	82	7.01	2.9	13	
Indianapolis	766	25	29.81	30.18	+ .05	42.8	-0.1	73	7	50	17	27	35	36	35	35	82	5.81	2.0	14	

TABLE I.—Climatological data for Weather Bureau Stations, November, 1895—Continued.

Stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.				Humidity and precipitation.		Wind.		Monthly temperature data since opening station.																			
			Mean pressure, 9 a.m. and 8 p.m. + or - 2.	Mean reduced.	Departure from normal.	Mean max. and min. + or - 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean temperature of the dew-point.	Mean relative humidity per cent.	Days with 0.1 or more.	Total movement, miles.	Precipitation, in inches.	Departure from normal.	Days with 0.1 or more.	Total movement, miles.	Precipitation, in inches.	Wind direction.	Maximum velocity.	Cloudy days.	Average cloudiness, tenths.	Absolute maximum.	Year.	Absolute minimum.	Year.	
<i>Up Mts. Val.—Con</i>																																
Dubuque	28	29.44	30.12	+ .08	35.9	- 1.1	71	5 48	24	11	24	25	29	23	2.12	0.0	10	25	n.s.	11	14	25	16	14	*	12	1887	3	1872	1888		
Keokuk	618	29.44	30.12	+ .08	38.6	- 2.7	73	4 46	10	9	31	31	31	31	2.58	0.6	14	6,082	s.w.	3	16	6.1	79	1888	3	1872	1887					
Cairo	359	29.75	30.14	+ .08	46.6	- 1.8	71	6 54	24	25	25	26	29	23	5.27	1.0	9	6,000	s.w.	13	6.0	80	77	1888	4	1887	1887					
Springfield, Ill.	644	29.49	30.18	+ .02	39.6	- 3.6	72	7 47	26	26	26	27	29	23	2.38	0.4	14	7,447	n.w.	19	19	19	19	19	*	1887	4	1887	1887			
Hannibal	534	29.54	30.13	+ .02	39.6	- 3.6	74	4 47	16	16	32	32	32	31	4.40	1.1	15	6,392	s.e.	8	8	10	15	15	6.4	82	1879	5	1873	1873		
St. Louis	571	29.53	30.16	+ .04	43.2	- 3.0	76	7 47	26	26	26	27	29	23	3.98	1.1	10	8,556	n.w.	19	19	19	19	19	6.5	82	1879	5	1873	1873		
<i>Missouri Valley.</i>																																
Columbia	7	29.69	30.14	+ .02	42.6	- 2.8	78	4 53	9	9	26	26	26	26	1.88	0.2	13	6,682	s.e.	41	19	19	19	19	6.4	80	1890	5	1891	1891		
Kansas City	968	29.08	30.14	+ .02	41.1	- 2.8	75	4 49	10	10	33	33	33	33	3.05	0.8	7	6,975	s.e.	38	19	19	19	19	5.6	79	1891	4	1887	1891		
Springfield, Mo.	1,394	29.69	30.12	+ .01	43.4	- 2.8	71	4 54	16	16	33	33	33	33	3.29	0.5	10	8,049	s.e.	36	19	19	19	19	5.9	79	1891	4	1887	1891		
Topeka	9	28.89	30.18	+ .01	38.6	- 3.6	72	4 45	11	11	33	33	33	33	1.00	0.5	7	6,513	s.n.	86	19	19	19	19	5.8	79	1891	4	1887	1891		
Omaha	1,129	29.89	30.18	+ .01	38.6	- 3.6	72	4 45	12	12	33	33	33	33	1.05	0.5	8	8,023	s.e.	37	5	5	5	5	6.3	80	1890	4	1887	1890		
Sioux City	1,165	28.78	30.10	+ .02	38.2	- 1.1	73	4 41	13	13	34	34	34	34	0.80	0.1	6	5,014	s.n.	48	18	18	18	18	6.3	80	1891	3	1887	1891		
Pierre	1,470	28.46	30.08	+ .02	30.8	- 3.4	73	2 42	13	13	33	33	33	33	0.45	0.0	5	5,997	s.w.	46	5	5	5	5	6.4	77	1893	3	1887	1893		
Huron	1,310	28.64	30.11	+ .00	28.8	- 2.6	69	2 41	13	13	33	33	33	33	1.30	0.8	11	8,497	s.e.	43	19	19	19	19	6.4	77	1893	3	1887	1893		
<i>Northern Slope.</i>																																
Havre	2,477	16	27.34	30.06	- .04	28.1	- 2.1	63	16 37	22	22	22	22	22	22	0.47	0.2	7	7,049	s.w.	40	w.	16	16	16	6.5	73	1894	-	1887	1894	
Miles City	2,379	18	27.49	30.07	- .04	28.9	- 3.4	65	1 39	23	23	23	23	23	23	0.77	0.4	5	4,260	s.e.	41	n.w.	18	18	18	5.7	73	1891	-	1880	1891	
Helena	4,108	16	25.85	30.17	+ .03	33.4	- 0.2	61	17 40	24	24	24	24	24	24	0.77	0.8	7	6,040	s.w.	45	w.	15	15	15	6.6	71	1894	-	1887	1894	
Rapid City	3,260	10	25.59	30.08	+ .03	31.8	- 4.0	71	2 42	24	24	24	24	24	24	1.08	0.7	8	5,706	s.w.	48	n.	18	18	18	7.0	79	1894	-	1889	1894	
Cheyenne	6,105	25	33.95	30.17	+ .03	38.4	- 2.0	65	2 42	24	24	24	24	24	24	0.80	0.3	8	8,842	n.w.	44	n.w.	28	28	28	6.5	75	1891	-	1887	1891	
Lander	5,377	13	24.63	30.24	+ .04	25.1	- 1.9	66	1 43	24	24	24	24	24	24	2.30	1.7	9	1,909	s.e.	24	n.e.	18	18	18	4.7	72	1894	-	1883	1894	
North Platte	2,836	22	27.10	30.15	+ .00	35.2	- 2.1	75	2 43	24	24	24	24	24	24	0.96	0.8	5	5,997	s.w.	43	n.w.	18	18	18	6.2	81	1897	-	1887	1897	
<i>Middle Slope.</i>																																
Denver	5,309	24	24.71	30.18	- .02	37.8	- 3.2	75	2 50	15	15	15	15	15	15	0.27	0.4	2	5,791	s.e.	40	n.e.	21	10	17	3	76	*	-	18	1877	
Pueblo	4,734	8	25.26	30.14	- .01	38.0	- 2.7	73	1 51	15	15	15	15	15	15	0.33	0.1	5	4,773	s.w.	38	n.e.	21	14	9	4.7	81	*	1	1889		
Concordia	1,410	11	25.55	30.12	- .02	40.5	- 1.9	73	4 50	15	15	15	15	15	15	1.19	0.2	5	6,362	s.e.	35	s.	13	8	9	4.7	82	*	-	1887		
Dodge City	2,504	23	27.43	30.11	- .00	41.3	- 1.0	75	4 53	10	10	10	10	10	10	1.08	0.7	5	6,322	s.w.	45	s.	4	17	7	6	8.8	84	1888	-	1887	1888
Wichita	1,851	8	26.64	30.11	- .02	43.4	- 0.1	74	4 56	14	14	14	14	14	14	1.80	0.8	7	7,646	s.e.	36	n.w.	19	16	16	5.5	75	1891	-	1875	1891	
Oklahoma	1,239	28	28.81	30.16	- .00	45.0	- 1.4	74	13 54	18	18	18	18	18	18	5.79	0.6	5	5,997	s.w.	42	n.	19	16	16	6.2	81	1897	-	1887	1897	
<i>Southern Slope.</i>																																
Abilene	1,749	11	28.31	30.18	+ .04	50.4	- 3.3	77	21 50	16	16	16	16	16	16	2.38	0.3	11	7,094	s.n.	34	n.	19	16	16	4.3	86	*	18	1887		
Amarillo	3,691	26	29	30.15	- .00	49.2	- 1.9	77	18 54	15	15	15	15	15	15	0.81	0.5	9	11,360	s.w.	46	sw.	3	15	9	6	8.8	79	1894	15	1895	1895
<i>Southern Plateau.</i>																																
El Paso	8,767	18	26.24	30.18	+ .03	50.2	- 1.9	76	4 63	26	26	26	26	26	26	3.07	0.5	5	7,696	n.e.	50	sw.	3	17	11	2	7.7	82	1889	11	1890	1890
Santa Fe	6,998	23	28.17	30.17	- .04	35.0	- 3.1	57	21 44	26	26	26	26	26	26	1.18	0.3	6	4,621	s.e.	42	sw.	20	2	8	3.5	77	1878	-	11	1890	
Phoenix	1,106	28	28.88	30.04	- .04	57.0	- 0.6	83	19 70	24	24	24	24	24	24	0.89	0.4	6	3,291	s.e.	24	se.	29	21	4	5	3.0	77	1891	-	1880	1891
Yuma	141	21	29.85	30.00	- .02	60.8	- 1.9	74	19 61	24	24	24	24	24	24	0.87	0.0	2	4,866	s.e.	34	se.	11	23	7	1.4	92	*	31	1890		
Independence	3,884	26	27.07	30.07	- .00	48.3	- 2.3	80	18 61	24	24	24	24	24	24	1.21	0.2	1	6,463	s.w.	50	n.	21	16	8	4.0	80	*	31	1890		
<i>Middle Plateau.</i>																																
Carson City	4,720	8	25.88	30.21	- .00	39.6	- 2.1	70	20 54	14	14	14	14	14	14	0.86	0.5	5	4,011	s.e.	33	n.w.	20	3	7	3.5	73	*	8	1896		
Winnemucca	4,840	17	25.74	30.23	+ .02	34.6	- 2.6	64	18 49	3	3	30	30	30	30	0.83	0.6	9	6,565	s.e.	44	n.e.	21	13	13	4	4.2	73	1891	-	1890	1891
Salt Lake City	4,345	23	25.70	30.22	- .0																											

TABLE II.—*Meteorological record of voluntary and other cooperating observers, November, 1895.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.			Maximum.	Minimum.	Mean.		
Alabama.	°	79	°	56.3	1.23	In.	In.	In.	In.	Arkansas—Cont'd.	°	76	24	51.3	Ins.
Alico†	79	35	56.3	2.18		Brinkley†	76	24	51.3	Greenville†	°	74	12	39.8	Ins.
Ashville†	84	21	50.7	2.18		Camden a†	76	24	48.9	Guinda	°	74	12	39.8	2.8
Bermuda†	79	24	56.2	0.88		Camden b†	81	30	50.2	Healdsburg*†	°	92	28	56.0	2.30
Carrollton†	73	26	53.9	2.74		Conway†	75	25	48.4	Hollister	°	84	24	51.5	0.88
Citronelle†	77	24	58.0	0.92		Corning†	79	22	46.0	Hueneme				1.00	
Clairborne Landing†				0.36		Dallas†	79	24	49.4	Humboldt L. H.				3.40	
Clanton†	76	29	54.0	1.85		Dardanelle†				Hydesville†	°	76	25	48.7	2.36
Collirene*†	80	26	56.3	1.05		Elon†	80	22	55.1	Indio*†	°	95	32	61.6	0.00
Cordova†				3.60		Fayetteville†	78	18	47.0	Iowa Hill*†	°	88	33	52.4	1.61
Daphne†	82	23	59.2	1.00		Forrest†	76	24	52.8	Jackson	°	74	23	48.2	0.93
Decatur†		18	50.4	1.31		Fort Smith				Jolon				0.96	
Demopolis†				0.68		Fulton†				Julian†	°	77	25	48.7	2.80
Elba†	81	29	56.0	2.14		Gaines Landing†				Keeeler*†	°	73	25	33.9	0.00
Eufaula a†	82	31	56.6	1.46		Helena a†				Keene*†	°	72	26	48.8	1.65
Evergreen†	80	26	54.6	0.90		Hot Springs a†	81	25	52.8	Kennedy Gold Mine	°	76	33	51.2	0.90
Florence a†				1.03		Hot Springs b†				Kernville				0.95	
Florence b†	75	23	51.4	1.67		Hot Springs (near)				King City*†	°	80	24	48.6	0.51
Fort Deposit†	80	30	55.2	0.14		Keesees Ferry†	76	16	46.3	Kingsburg*†	°	70	30	49.3	0.53
Gadsden†	80	24	52.8	3.31		Kirby†	76	21	50.0	Kono Tayee	°	82	37	52.0	1.69
Goodwater†	80	25	53.8	1.35		La Crosse†	73	18	46.6	Lagrange*†	°	77	29	54.0	0.72
Greensboro†	78	26	54.2	1.64		Lonoke*†	73	21	49.1	La Porte*†	°	73	19	38.8	3.35
Healing Springs†	80	21	53.8	1.57		Luna Landing*†	77	26	54.1	Lemoore a*†	°	75	25	49.8	0.70
Highland Home†	77	26	56.4	0.51		Madding†	76	20	56.3	Lick Observatory†	°	80	28	47.9	2.46
Jasper†				2.63*		Malvern†	73	21	48.6	Lime Kiln	°	84	31	54.8	1.5
Livingston†	80	24	55.8	0.46		Mount Nebo†	73	19	48.4	Lime Point L. H.				1.85	
Lock No. 4.				1.51		New Gascony*†	73	26	49.9	Lodi	°	74	27	51.6	1.24
Madison Station†	77	21	51.2	1.90		Newport a†	80	23	48.8	Los Alamos†				0.85	
Maple Grove†	73	23	50.8	2.15		Newport b†	76	22	48.5	Los Gatos b	°	80	34	51.7	1.24
Marion†	76	25	51.0	1.20		Newport c†	76	25	49.6	McMullin*†	°	82	28	52.6	3.0
Mount Willing†	82	25	57.3	1.11		Osceola†	76	25	47.6	Malakoff Mine*†	°	80	48.0	2.27	
Newbern†	78	27	54.4	1.93		Ozark†	75	23	50.0	Mammoth Tank*†	°	86	36	58.4	0.12
Newburg†	87	18	52.4 ^c	1.75		Pine Bluff†	80	26	53.8	Manzana	°	75	13	45.8	0.48
Newton†	78	20	57.2	0.71		Pocahontas†	72	20	44.8	Mare Island L. H.				1.58	
Oneonta†	79	19	49.8	1.08		Rison†	73	19	50.6	Mered*†	°	76	30	53.0	0.69
Opelika†	76	27	54.2	1.24		Russellville†	73	21	48.6	Middletown*†	°	82	24	50.7	8.06
Oxanna*†	73	24	50.6	1.47		Silver Springs†	71	18	44.6	Mills College	°	73	42	56.8	1.11
Pine Apple†	80	25	54.5	1.50		Stuttgart†	77	23	50.1	Modesto*†	°	78	30	51.2	0.70
Pushmataha†	79	25	54.5	2.54		Texarkana†	73	20	48.8	Mohave*†	°	80	27	50.3	0.14
Scottsboro†	80	21	51.0	2.86		Warren†	80	22	52.4	Mokelumne Hill*†	°	86	36	49.7	1.12
Selma†				1.30		Washington†	75	26	52.2	Monterey*†	°	76	31	53.7	0.82
Tuscaloosa†	78	23	51.8	1.91		Wiggs†				Mount Frazier†				0.90	
Union†	79	23	54.2	1.65		Winslow†	72	16	45.4	Mount Glenwood*†	°	88	38	57.6	2.06
Union Springs†	80	25	53.8	3.17		Witts Springs†	73	17	46.3	Mutah Flat†				1.60	
Uniontown†	71	30	55.4 ^c	1.44		California.				Napa b.	°	90	36	55.3	1.73
Valley Head†	79	20	50.2	2.52		Adin	71	9	38.2	Needlest.	°	79	34	57.7	T.
Wetumpka†				1.42		Ager	64	16	40.6	Nevada City†	°	88	33	46.4	1.87
Alaska.						Agnew	82	35	52.4	Newcastle†	°	80	34	51.7	1.40
Killisnoo†	52	12	35.8	4.40	0.1	Arlington Heights	90	31	50.8	Newhall*†	°	84	26	53.8	1.09
Arizona.						Athlone*†	76	21	50.0	Nordhoff†	°	82	30	57.4	0.82
Benson*†	80	50	68.7	0.00		Ballast Point L. H.	85	26	55.4	Oakland a	°	88	38	53.9	2.09
Bisbee†	76	26	47.4	2.23	2.0	Bear Valley†				Ogilby*†	°	90	39	59.3	0.15
Buckeye†	87	23	57.1	0.50		Berkeley†	82	38	54.8	Oleta*†	°	75	29	47.0	0.74
Calabasas†	75	26	49.5	2.67		Bishop Creek*†	83	12	42.9	Orange	°	91	33	58.6	1.26
Casa Grande*†	33	40	58.8	0.80		Boca*†	74	16	48.0	Orangegate†	°	88	35	51.8	1.08
Dragoon†				2.18		Borden*†	83	12	38.7	Orland*†	°	88	30	52.9	1.34
Dragoon Summit*†	70	33	52.8	2.77	1.5	Bodie†	63	-1	27.2	Ormonde†				2.18	
Dudleyville†	73	28	50.4	3.90		Bowman's Dam†				Oroville b.	°	88	43	61.2	1.85
Eagle Pass*†	26	26	42.0	4.32	2.0	Calloway Canal†				Palermo†	°	87	26	51.2	1.20
Flagstaff†	59	5	32.9			Cape Mendocino L. H.				Paso Robles b.	°	76	18	47.4	1.63
Fort Apache†	63	10	38.7	2.30		Cedarville†	66	10	36.2	Picacho	°	88	40	67.8	0.50
Fort Grant†	77	26	49.4	2.05	0.3	Centerville*†	86	40	56.6	Piedras Blancas L. H.				1.26	
Fort Huachuca†	72	23	48.2	2.73	3.8	Chino*†	80	30	57.5	Pigeon Point L. H.				0.87	
Fort Mohave†	91	33	60.0	0.42		Chico*†	80	20	52.2	Pilot Creek				1.8	
Gila Bend a*†	84	36	62.2	0.28		Cottage*†	66	10	36.2	Point Ano Nuevo L. H.	°	85	10	46.0	0.77
Gila Bend b†	89	34	62.2	0.28		Crescent City†	82	31	54.0	Point Arena L. H.				3.06	
Gisela†	74	23	50.1	3.57		Crescent City L. H.	80	36	50.8	Point Bonita L. H.				2.88	
Holbrook†	64	8	35.8	3.58	16.0	Davisville b†	90	22	60.4	Point Conception L. H.				0.69	
Maricopa*†	91	25	60.4	1.46		Delano*†	78	26	54.3	Point Fermin L. H.				1.42	
Mount Huachuca†	71	23	48.2	4.45		Delta*†	83	36	56.4	Point George L. H.				0.94	
Natural Bridge†				4.35		Drytown†	79	29	51.6	Point Huemene L. H.				1.25	
Navajo*†	62	10	41.4			Dunnigan*†	82	32	54.8	Point Lobos	°	74	41	54.3	2.38
Oraole†	68	29	49.8	6.63	6.0	Durham*†	76	29	49.9	Point Loma L. H.				0.61	
Oro				1.80		East Brother L. H.	86	21	50.8	Point Montara L. H.				1.37	
Oro Blanco				3.70		Edgewood*†	60	20	41.1	Point Pinos L. H.				1.34	
Pantano*†	80	28	53.7	2.28		Edmaston*†	70	33	39.8	Point Reyes L. H.				2.52	
Parker†	91	25	57.7	0.92		Escondido†	88	31	57.0	Point Sur L. H.				1.14	
Peoria†	82	35	56.7	1.35		Evergreen†				Pomona (near)	°	98	29	58.2	1.08
Phoenix†	81	31	55.2	1.22		Fall Brook*†	90	38	55.2	Porterville*†	°	81	34	58.4	1.71
Pinal Ranch†				5.33	1.5	Folsom City b*†	75	35	51.4	Reedley (near)*†	°	78	33	52.6	0.15
Reymert†	78	31	64.5	4.97		Fordyce Dam				Represa	°	70	32	52.9	1.98
San Carlos†	73	28	51.0	3.42	12.0	Fort Bragg†	89	27	54.0	Rio Vista	°	74	27	52.2	1.63
San Simon*†	77	31	54.2	0.30	8.0	Fort Ross†	80	27	54.0	Riverside†	°	90	29	56.6	1.25
Show Low				2.85	35.0	Fort Tejon	83	30	49.8	Robertson's Mill				0.52	
Signal†	84	30	54.9	0.65		Georgetown†	83	30	50.6	Roe Island L. H.				1.15	
Sulphur Spring Valley†				1.51		Glenclora				Rosewood	°	88	21	48.8	1.70
Texas Hill*†	85	28	58.3	0.10		Glenclora				Sacramento a	°	72	30	51.6	1.55
Tucson c†	83	27	55.1	4.30		Goshen*†	76	28	49.7	Salton*†	°	98	34	60.9	T.
Walnut Ranch*†	68	27	45.5	3.30		Grass Valley				San Bernardino†	°				

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
<i>Illinois—Cont'd.</i>							<i>Indiana—Cont'd.</i>							<i>Iowa—Cont'd.</i>						
Bloomington †	72	9	38.0	8.74	10.5		Columbus †	75	18	40.8	5.98	0.5		Keokuk	○	○	○	Ins.	Ins.	
Bushnell †	74	8	38.7	8.20	4.0		Connersville	76	17	40.6	5.79	T.		Keosauqua †	76	5	38.1	1.14	2.0	
Cairo							Delphi	69	16	41.4	4.30	0.2		Knoxville	73	—	35.9	1.43	1.5	
Cambridge							Edwardsville †	76	22	45.5	7.62	T.		Larabee †	70	—	32.5	1.06	5.8	
Carlinville	79	8	40.2	2.01	6.0		Evansville	75	20	44.2	9.51	T.		Le Claire †				1.88	0.5	
Carlyle							Farmland †	73	16	41.8	5.99			Lenox †	73	—	36.6	1.57	1.1	
Carrollton	71	10	38.3	2.27	5.7		Franklin †	76	19	41.1	5.48	T.		Logan †	74	—	35.2	1.09	3.0	
Catlin †	74	8	38.6	3.83	1.0		Greencastle †	69	15	41.0	4.56	0.2		Madrid	73	—	31.9	1.30	2.8	
Cazenovia *†	68	6	35.1	3.76	7.0		Hammond †	72	4	36.0	1.77	8.0		Maverne *†	76	—	30.6	1.20	2.0	
Chemung *†	68	—	38.1	2.10	19.8		Huntington	69	15	38.6	5.23	2.0		Marshall †	70	—	32	1.15	1.5	
Chester †							Indianapolis							Mason City †	69			1.92	12.2	
Chicago							Jasper †	73	19	43.8	6.52	0.5		Maxon *†	74	—	32	1.59	8.2	
Cline †	58	—	41.0	3.97	14.5		Jeffersonville	76	24	44.8	6.89	T.		Mechanicsville	71	—	34.5	2.30	9.2	
Clear Creek †	72	—	38.4	4.31	7.8		Kokomo †	72	14	40.2	4.71	0.8		Monticello *†	68	—	30.5	1.58	3.0	
Coatsburg †	74	9	39.7	8.36	8.0		Lafayette †	70	11	39.6	3.88	0.8		Moor †	75	—	36.8	3.01		
Cordova †							Logansport b	71	18	41.1	4.12	1.0		Mount Ayr †	72	—	35.8	1.04	1.0	
Decatur †	75	9	39.8	3.12	6.5		Lyford †	70	18	41.3	4.34	1.0		Mount Pleasant *†	71	5	38.2	2.46	7.6	
Dixon †	71	4	34.5	2.50	9.5		Madison †	73	20	44.6	6.72	T.		Mount Vernon *†	72	—	35.0	1.81		
Duquoin *†	74	—	43.9	5.57	T.		Marengo *†	76	20	42.7	13.01	0.1		Neola	76	—	35.3	1.17	2.7	
East Peoria †	73	—	38.8	4.10	5.5		Marion †	70	14	40.8	5.42	0.5		Newton †	71	—	35.4	1.30	3.0	
Effingham †							Mauzy †	76	18	39.8	6.12	1.0		North McGregor †				1.38	3.0	
Evanson *†	68	—	37.2				Mount Vernon †	72	23	44.7	6.75	T.		Ogden	74	—	38.4	1.74	3.8	
Flora *†	71	18	43.3	4.69	T.		Princeton *†	74	23	43.8	6.25	1.0		Osage *†	74	—	38.8	1.95	12.0	
Fort Sheridan †	68	—	35.4	2.14	8.4		Rockville †	72	8	40.7	4.45	0.5		Oskaloosa	74	—	35.6	1.17	2.5	
Frederick *†	74	9	37.7	8.92	8.2		Scottsburg *†	71	20	43.0	5.95	T.		Ottumwa	75	—	37.6	1.94	2.8	
Friend Grove *†	38	45.8	5.04	T.			Seymour †	73	20	42.7	6.13	T.		Ovid †	75	—	33	38.4	1.91	3.0
Galva †	73	6	35.4	2.18	7.0		South Bend †	71	7	38.0	3.84	15.0		Panama *†	72	—	31.2	1.29	2.8	
Gilmant †	75	6	39.8	2.80	7.0		Sunman	72	14	39.8	6.37	0.4		Portsmouth	79	—	36.6	1.08	3.0	
Glenwood *†	78	—	34.0	2.76	11.0		Terre Haute †	70	18	43.1	4.58	0.2		Pringhar	68	—	31.4	1.01	8.5	
Golconda †	71	29	47.4	7.20	T.		Valparaiso	70	6	36.4	2.55	8.0		Rock Rapids	62	—	29.9	1.06	6.0	
Grafton †							Vevay	79	18	43.8	5.20	T.		Sac City †	62	—	32.2	1.00	5.5	
Greenville †	76	19	41.8	4.52	3.5		Vincennes †	76	14	40.5	5.22	T.		Seymour †	74	—	38.0	8.00	3.0	
Griggsville †	73	10	41.9	2.95	12.4		Worthington †	75	17	42.7	6.36	1.2		Sibley	84	—	39	40.9	1.14	1.5
Halliday *†	72	—	45.4	4.94	T.			Tulsa †							Sidney	84	—	30	1.70	10.0
Havana †	73	8	40.7	3.80	7.0			Vinita †	74	18	46.2	5.17			Spirit Lake †	71	—	37	28.8	4.0
Herrins Prairie *†	74	26	47.1	6.61	0.1									Toledo	76	—	34.4	1.37	3.0	
Hillsboro †	76	13	42.0	3.28	4.5									Villisca †	75	—	34.9	1.65	1.5	
Iron †	76	26	46.0	7.37										Vinton *†	71	—	32	1.11	2.5	
Joliet †	69	4	37.8	3.90	17.2									Washington †	74	—	36.2	1.54	2.5	
Jordans Grove †	78	18	43.8	4.30	0.8									Waterloo	73	—	34.4	1.73	5.4	
Kankakee †	73	4	35.6	5.02										Waukee	78	—	38.0	1.15	1.5	
Kankakee †	68d	10d	38.0d											West Bend *†	85	—	30.4	1.70	10.0	
Knoxville *†	71	5	38.0	3.51	4.8									What Cheer				0.45	4.5	
Lagranget	70	4	35.5	5.09	19.0									Williams	70	—	32.6	1.94	7.0	
La Harpe *†	70	6	36.9	3.40	8.0									Wilton Junction †	70d	—	36.1	2.48	6.0	
Lanark *†	68	4	33.9	2.03	5.0									Winterset †	73	—	34.6	0.96	1.0	
Lexington †	70	7	37.4	2.80	8.5															
Loami																				
Louisville †	71	17	42.6	4.34	0.8															
McLeanboro *†	22	41.2	5.57																	
Martinsville †	70	16	40.6	4.75	1.5															
Mascoutah *†	76	18	41.1	3.75	4.5															
Mattoon	71	18	43.2	2.61	0.2															
Minonk *†	69	6	36.5	4.03	13.8															
Monnouth †	74	7	37.0	2.08	3.8															
Morrisonville †	75	13	39.8	3.28	4.5															
Mount Carmel †																				
Mount Pulaski	75	12	39.8	2.67	9.5															
Mount Vernon	74	21	46.0	4.66	0.5															
New Burnside †	74	20	45.8	7.08	T.															
Oiney *†	75	22	44.4	4.40	0.8															
Oiney *†	71	11	35.7	5.00	0.8															
Oswego *†	67	2	33.7	4.58	14.0															
Ottawa †	71	—	35.8	5.27	12.5															
Palestinet	76	18	42.3	4.86	0.8															
Paris †	71	10	39.6	4.84	2.0															
Peoria †																				
Peoria b	74	11	39.4	4.17	5.0															
Phil Hill *†	76	21	40.8	3.29	0.7															
Rantoul *†	73	2	37.6	3.25	9.5															
Reynolds	73	6	35.8	1.02	7.3															
Riley †	68	1	32.7	2.69	13.6															
Rockford †	70	—	34.4	3.34	18.5															
Rose Hill *†	74	24	44.5	2.87																
Rushville	75	8	37.9	4.72	4.9															
St. John *†	72	22	42.4																	
Scales Mound †	70	10	35.8	1.63	8.2															
Springfield																				
Streator †	68	—	37.1		9.0															
Sycamore *†	68	—	39.8	3.71	28.0															
Tiskilwa *†	69	16	34.8	3.31	17.0															
Tuscola *†	73	12	40.8																	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.						
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.					
Kansas—Cont'd.	°	°	°	Ins.	Ins.	Louisiana—Cont'd.	°	°	°	Ins.	Ins.	Massachusetts.	°	°	°	Ins.	Ins.					
Manhattan b.	80	9	41.8	1.17	T.	Franklin †	75	34	59.8	3.59	70	12	40.6	.....	.....	.....			
Manhattan c.	.....	.....	.....	1.36	1.0	Grand Coteau	73	34	59.6	4.84	71	12	41.1	4.84	2.0	.....					
Marion †.	75	11	42.8	0.75	T.	Hammond †.	74	34	58.4	1.44	72	15	41.1	5.86	3.0	.....					
Meade †.	79	18	44.0	1.38	1.0	Houma †.	74	34	59.6	0.60	72	12	41.4	6.28	.....	.....				
Medicine Lodge †.	74 ^d	15 ^d	40.8 ^d	1.21	.....	Jeanerette †.	74	.....	.....	4.16	73	12	41.4	6.47	.....	.....				
Minneapolis †.	76	5	41.1	1.04	1.2	Lafayette †.	70	30	58.8	3.84	72	14	42.4	8.64	.....	.....				
Morland †.	78	1	39.4	1.20	4.0	Lake Charles †.	72	34	58.6	12.57	68	13	41.8	8.24	T.	.....					
Morton †.	77	5	40.6	0.56	3.0	Lake Providence †.	75	.....	.....	2.67	71	15	41.4	8.95	1.0	.....					
Mount Hope * ¹ .	77	14	44.9	1.05	T.	Lawrence †.	70	35	58.8	1.25	73	16	43.3	9.48	.....	.....				
Ness City †.	.....	.....	.....	0.77	1.5	Liberty Hill	70	35	58.6	1.66	70	5	33.2	5.20	.....	.....				
New England Ranch †.	73	4	41.4	0.76	1.8	Maurepas	73	35	58.6	5.00	70	11	36.2	5.20	.....	.....				
Norwich †.	.....	.....	.....	1.58	.....	Melville †.	73	35	58.6	.....	70	16	43.6	7.54	0.8	.....					
Oberlin †.	.....	.....	.....	1.65	10.0	Monroe †.	76	35	55.2	5.25	73	16	43.6	7.54	0.8	.....					
Olathe †.	75	5	42.3	2.96	3.5	Natchitoches †.	75	35	58.6	4.17	72	14	42.4	7.58	.....	.....				
Oswego †.	77	23	45.8	3.45	4.0	New Iberia	78	35	59.6	3.30	70	13	41.8	8.09	.....	.....				
Ottawa †.	76	5	42.8	1.84	2.0	Oak Ridge †.	73	35	58.8	4.50	74	14	43.1	5.94	0.8	.....					
Paola †.	80	8	42.2	3.45	4.0	Oberlin	70	35	58.2	.....	72	19	42.2	6.09	.....	.....				
Phillipsburg †.	74 ^d	4 ^d	38.4 ^d	1.32	4.0	Opelousas †.	76	35	58.0	4.53	74	14	43.9	7.69	0.5	.....					
Pleasant Dale †.	78	6	41.0	0.05	0.5	Oxford †.	75	35	53.6	5.35	70	14	43.0	5.45	.....	.....				
Rome * ¹ .	73	11	43.1	2.12	3.0	Paincourtville †.	70	35	59.7	2.01	74	15	42.0	8.69	0.4	.....					
Russell †.	74	6	41.2	1.10	1.0	Plain Dealing †.	75	35	55.3	4.48	68*	14	42.2	4.60	.....	.....				
Salina †.	77	8	41.1	0.79	T.	Rayne †.	76	35	60.0	4.73	70	15	39.6	4.17	0.8	.....					
Sedan †.	78	5	46.4	2.86	2.5	Ruston †.	71	35	54.6	5.44	67	20	43.0	5.30	.....	.....				
Sharon Springs * ¹ .	76	8	38.2	0.45	2.0	Schriever †.	76	35	58.0	1.98	68	21	46.8	5.30	.....	.....				
Topeka	.....	.....	.....	0.8	Shell Beach	73	35	59.9	3.04	70	14	43.0	4.74	.....	.....					
Tribune †.	.....	.....	.....	0.88	3.0	Southern University †.	73	35	60.0	1.20	69	14	39.6	5.88	0.5	.....					
Ulysses †.	.....	.....	.....	0.36	1.0	Sugar Ex. Station †.	73	35	58.6	1.36	71	12	40.6	4.58	0.8	.....					
Wakefield * ¹ .	78	10	43.1	1.60	0.5	Sugartown †.	75	30	58.0	4.43	70	6	43.8	6.78	1.0	.....					
Wallace * ¹ .	70	4	37.7	0.42	1.8	Thibodeaux	.....	.....	.....	2.18	72	13	40.2	6.49	.....	.....				
Wamego * ¹ .	78	10	40.1	0.62	T.	Toledo †.	82	27	58.9	3.33	70	12	39.6	6.02	.....	.....				
Wellington * ¹ .	73	16	45.6	1.50	.....	Trinity †.	78	27	58.9	2.59	73	15	41.7	6.86	0.5	.....					
Wichita	.....	.....	.....	0.1	Wallace	82	36	60.0	1.98	70	10	38.3	7.11	.....	.....					
Wintfield * ⁶ .	74	8	42.0	1.30	1.5	West End	.....	.....	.....	0.92	70	10	43.5	6.17	T.	.....					
Winona * ⁶ .	73	12	42.3	0.37	1.2	White Sulphur Springs †.	70	35	58.6	3.96	69	15	46.8	4.42	.....	.....				
Yates Center †.	76	-1	41.9	2.56	3.0	Maine.	.....	.....	.....	.....	70	14	41.1	6.32	.....	.....				
Kentucky.	.....	.....	.....	.....	Bar Harbor	68	9	39.4	9.73	70	16	41.9	4.07	.....	.....	.....			
Alpha †.	88	20	49.7	1.73	T.	Belfast * ⁶	66	13	37.9	7.29	70	12	43.4	6.32					
Anchorage †.	78	19	45.3	4.71	T.	Cornish * ⁶	69	8	36.6	8.30	70	15	41.7	6.86	0.5					
Blandville †.	74	23	45.5	4.75	T.	Eastport	70	7	37.5	5.47	72	16	39.7	4.00	1.0					
Bowling Green a [*] 1.	77	16	48.8	4.01	T.	Fairfield	70	7	37.5	5.47	70	10	38.3	2.52	T.					
Bowling Green b†.	79	21	47.3	4.08	Farmington †.	74	9	37.0	5.76	2.5	Leicester	70	10	38.3	6.24			
Burnside †.	2.28	Flagstaff †.	68	1	34.8	69	16	41.9	4.07					
Caddo * ¹ .	76	18	43.3	5.00	Gardiner	71	11	39.0	6.85	2.8	Long Plain * ⁶	69	16	41.9	4.07			
Canton * ¹ .	73	29	47.2	5.74	T.	Houlton †.	64	8	34.1	5.73	19.0	Lowell a	69	16	41.2	8.16			
Carrollton †.	83	19	44.4	6.27	T.	Kineo †.	63	8	35.0	5.47	9.5	Lowell b	73	14	41.2			
Catlettsburg †.	2.34	Lewiston	70	14	37.9	7.21	4.4	Lowell c	73	18	44.0	5.06	0.8			
Custer †.	76	24	47.0	6.50	T.	Mayfield	65	1	38.8	7.68	11.5	Ludlow Center	68	10	37.8	5.06			
Earlington	74	22	46.9	5.84	North Bridgton	70	10	38.8	6.58	5.5	Lynn a	66	14	39.8	5.64			
Edmonton †.	76	19	46.9	3.42	0.8	Petit Menan * ¹	53	16	39.5	66	21	44.6	5.64					
Falmouth †.	3.94	Portland	4.2	71	20	44.6	7.49	T.					
Fords Ferry †.	74	20	45.4	6.54	West Jonesport * ¹	54	11	38.5	0.53	73	18	43.6	4.35					
Frankfort †.	79	22	46.6	2.73	T.	Winslow	0.53	71	18	43.8	5.66	0.5					
Franklin * ¹ .	78	25	48.4	3.93	0.5	Maryland.	66	10	36.0	6.77	4.2					
Georgetown	78	18	46.5	Annapolis	67	27	46.2	1.87	72	15	43.5	4.87	1.0				
Greendale * ¹ .	75	22	44.6	2.86	T.	Bachmans Valley * ¹	75	20	43.4	1.80	70	14	43.6	4.08	2.8			
Greensburg * ¹ .	80	20	45.2	3.73	T.	Baltimore	70	14	43.6	5.57	2.8			
Harrods Creek †.	7.50	Boettcherville * ¹	78	18	49.0	0.40	70	14	43.6	5.57	2.8			
Henderson †.	75	24	47.6	9.04	T.	Cambridge †.	75	29	50.5	2.57	70	14	43.6	5.57	2.8		
Leitchfield †.	79	19	45.3	4.79	0.5	Charlotte Hall †.	78	23	46.0	2.20	70	14	41.7	6.86	0.5		
Lexington	Cherryfields * ¹	76	23	46.9	3.46	70	14	43.6	4.33			
Lola †.	73	17	46.4	6.07	Chestertown †.	75	25	45.8	2.22	70	14	43.6	3.95	T.		
Louis †.	80	20	45.0	1.77	T.	College Park	78	23	48.5	1.96	70	14	43.6	4.33		
Louisville	Cumberland a†	74	24	42.8	0.34	70	14	43.6	4.33		
Marrowbone †.	76	18	46.8	2.93	T.	Cumberland b	79	24	49.4	0.43	70	14	43.6	4.33	
Mount Sterling †.	77	18	44.0	2.07	T.	Darlington †.	74	24	45.2	1.30	70	14	43.6	4.33	
Owenton †.	76	20	44.7	4.39	T.	Deer Park	70	0	37.8	0.94	70	14	43.6	4.33	
Paducah a†.	7.01	Denton †.	77	25	47.2	3.56	70	14	43.6	4.33	
Paducah b†.	76	22	47.8	6.16	T.	Easton †.	77	25	47.2	3.56	70	14	43.6	4.33	
Pleasure Ridge Park †.	79	18	48.3	6.73	0.1	Ellicott City	76	30	49.0	0.88	70	14	43.6	4.33	
Princeton †.	76	17	44.6	4.71	Fallston * ¹	75	24	45.5	1.70	70	14	41.1	4.59	0.8
Richmond †.	78	20	47.9	2.00	T.	Frederick a	75	24														

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Michigan—Cont'd.						Minnesota—Cont'd.						Missouri—Cont'd.					
Berlin ¹	76	4	34.6	4.46	5.0	Hutchinson [†]	71	-15	26.9	1.17	9.7	Birch Tree.....	73	13	42.8	4.95	1.0
Berrien Springs ¹	70	11	38.9	3.65	17.0	Koochiching [†]	48	-21	21.8	1.79	5.0	Bluffton.....	74	12	41.8	2.85	5.0
Birmingham.....	68	9	35.1	2.47	2.0	Lake Winnibigoshish ¹	56	-7	24.2	0.77	4.8	Boonville [†]	75	5	39.2	4.07	4.1
Boon.....	64 ¹	2 ¹	29.9 ¹	2.82	31.0	Lawrence [†]	0	0	0.81	1.2	Carrollton [†]	74	9	41.6	3.46	2.0	
Bronson.....	72	12	37.2	3.10	6.0	Leech Lake ¹	56 ¹	-18	22.8	0.97	3.4	Columbia.....	74	9	40.5	0.88	6.0
Calumet.....	64	11	39.8	1.26	18.8	Long Prairie [†]	64	-7	26.6	1.18	0.7	Conception.....	80	5	42.7	1.37	T.
Charlevoix.....	69	18	36.5	1.87	13.8	Luverne [†]	66	-3	30.2	2.15	5.8	Darksville [†]	76	6	43.2	3.35	2.0
Cheboygan.....	67	6	31.3	2.43	22.5	Maple Plain.....	67	-10	29.5	1.18	8.8	Downing.....	76	9	40.5	0.5	
Clinton.....	73	8	36.0	5.01	3.2	Mazeppa ¹	70 ¹	-10	34.7	1.90	7.0	East Lynne ^{4,2}	6	8	39.0	3.89	3.0
Detroit.....	72	.....	.....	.....	4.5	Milan [†]	69	-15	26.6	1.73	12.6	Eight Mile ¹	72	8	41.4	4.11	3.5
Fitchburg.....	72	0	34.5	4.54	12.5	Minneapolis ^a	67	-7	30.2	0.94	3.7	Elidon ¹	76	12	44.4	2.59	4.0
Flint.....	73	-2	34.4	3.59	6.1	Minneapolis ^b	65 ¹	-7	29.2	0.70	2.9	Elmira ^{4,3}	90	2	40.2	2.49	1.0
Grand Haven.....	69	.....	.....	.....	Minneapolis (W. B.).....	71	-3	33.2	1.20	11.0	Fairport.....	10	41.4	3.45	2.0		
Grand Rapids.....	69	18	35.4	5.40	26.2	Minnesota City [†]	68	-10	28.4	1.25	8.5	Farmersville.....	73	8	41.5	2.44	1.0
Grape.....	72	8	38.0	3.83	4.2	Montevideo [†]	68	0	0	.....	.....	Fayette.....	73	8	41.5	4.35	
Grayling.....	74	-6	36.6	2.75	25.0	Moorhead.....	65	-10	27.3	0.05	3.0	Fulton.....	73	6	39.0	3.07	5.0
Grindstone City ¹⁰	64	14	34.5	.....	Morris [†]	65	-10	22.6	1.37	18.7	Gallatin [†]	73	2	43.4	6.97	0.8	
Hammonds Bay ¹⁰	72	18	39.4	3.93	6.5	Mount Iron [†]	54	-10	22.6	0.90	2.0	Gayoso ^{4,3}	76	6	39.5	3.94	4.0
Hanover.....	69	12	38.9	3.93	6.5	New London.....	67	-4	39.0	0.90	2.0	Gordonville ^{4,3}	76	2	42.2	6.80	
Harbor Springs.....	70	1	33.3	2.50	16.1	New Richland ¹¹	68	-14	31.0	.....	.....	Gorin ⁴	77	11	37.8	2.72	
Harrison.....	58 ¹	6	31.4 ¹	2.43	24.3	New Ulm [†]	71	-13	31.6	1.09	11.0	Grove Dale.....	75	18	42.0	3.23	5.0
Harrisville.....	67	5	32.6	2.54	18.1	Park Rapids [†]	59	-13	28.8	0.92	2.7	Half Way.....	73	13	42.6	3.04	4.0
Hart.....	67	.....	.....	.....	Pine River ¹	68	-4	25.3	1.38	0.8	Hannibal.....	73	2	44.2	4.7		
Hastings.....	67	5	34.9	4.12	14.8	Pleasant Mounds [†]	71	-11	30.0	1.03	7.5	Harrisonville [†]	76	8	40.2	3.92	
Hayes.....	68	14	36.3	1.86	10.0	Pokegama Falls ¹	66 ¹	-18	23.2	1.53	3.4	Hastain.....	72	10	43.4	3.81	4.0
Hesperia.....	67	11	35.0	0.20	2.0	Red Lake [†]	60	-14	22.8	0.26	0.9	Hermann [†]	72	2	43.2	2.39	4.0
Highland Station.....	70 ^a	5 ^d	35.6 ^d	3.84	4.5	Redwing [†]	1.62	4.0	Houston.....	73	12	43.8	4.92	5.0	
Holland ¹⁰	71	19	39.1	.....	Reeds [†]	1.29	8.2	Houstonia (near).....	73	2	43.0	3.69	2.8		
Howell.....	74	0	34.3	3.96	7.0	Rolling Green [†]	65	-8	29.4	1.05	9.5	Ironton ^{4,1}	72	17	41.6	4.81	1.0
Ivan.....	66	4	33.6	2.88	22.0	Roseau [†]	50	-13	19.6	1.18	3.6	Jefferson City [†]	72	18	44.6	2.15	6.0
Jeddo.....	71	7	35.3	4.33	4.2	St. Charles [†]	68	-7	30.4	2.07	11.6	Kidder.....	75	3	38.8	2.42	1.7
Kalamazoo.....	68	10	37.4	3.82	12.0	St. Cloud.....	60	-8	27.8	0.94	T.	Lamar.....	75	8	43.0	3.77	3.0
Lansing.....	71	6	34.3	3.91	13.7	St. Olaf.....	63	-7	26.0	0.92	3.6	Lamonte.....	77	15	44.4	3.44	3.0
Lathrop ¹	57	0	27.6	2.68	14.0	St. Paul.....	67	-12	31.0	1.80	8.5	Lebanon.....	77	2	42.1	3.28	2.5
Lewiston.....	65	-1	31.8	1.95	.....	St. Peter [†]	67	0	0	.....	.....	Lexington [†]	77	8	40.7	2.39	2.5
Madison.....	71	12	36.4	4.95	2.3	St. Vincent.....	58 ¹	-18	25.5	1.07	7.1	McCune ^{4,1}	78	14	41.0	4.73	
Marquette.....	68	.....	.....	.....	Sandy Lake Dam ¹	64 ¹	-8	26.6	1.37	9.0	Marble Hill.....	75	16	43.1	6.09		
Mayville.....	68	2	32.6	3.76	17.2	Sauk Center.....	64	-8	30.8	0.78	5.0	Marcelline.....	74	3	39.0	3.71	3.0
Middle Island ¹⁰	59	16	36.9	.....	Shakopee ⁶	66 ¹	-11	30.8	0.78	5.0	Marshall [†]	77	3	34.8	4.01		
Mottville.....	70	5	37.0	3.78	8.0	Sunrise City ^{4,6}	64	-8	28.2	.....	.....	Maryville ⁴	77	2	43.8	0.52	0.3
Mount Pleasant.....	60	-3	32.1	4.48	28.0	Tower [†]	60	-12	24.8	2.10	6.0	Mexico [†]	77	9	40.8	4.86	6.0
Muskallongee Lake ¹⁰	58	4	31.4	.....	Two Harbors [†]	59	1	32.2	1.20	2.5	Miami.....	73	2	43.8	3.45	3.0	
North Manitou Island ¹⁰	59	19	37.1	.....	Willmar [†]	66	-12	27.2	1.34	5.0	Minne La Motte [†]	72	19	43.8	4.38		
North Marshall.....	70	8	38.7	4.10	7.5	Winona [†]	70	3	32.5	1.29	9.5	Mineralspring.....	79	16	47.0	3.64	2.5
Northport.....	65	15	35.8	1.70	14.0	Worthington [†]	65	-4	29.3	1.22	6.2	Mount Vernon.....	71	11	40.4	3.70	3.5
Old Mission.....	66	11	36.0	1.26	6.5	Zumbrota ¹	70	-10	30.8	.....	.....	Neosho.....	75	11	44.1	4.61	4.5
Olivet.....	68	9	35.8	3.03	9.0						Nevada.....	74	2	45.3	3.28	4.0	
Ottawa Point ¹⁰	69	6	37.0	.....						New Haven ^{4,1}	74	2	27.5	3.71			
Ovid.....	70	0	33.1	4.30	17.0					New Madrid.....	75	21	49.4	7.06			
Parkerville.....	71	7	34.9	3.88	13.0					New Palestine [†]	75	12	41.8	3.28	6.2		
Pontiac.....	71	0	31.8	1.88	13.0					Oakfield [†]	75	2	43.6	5.61	0.3		
Port Huron.....	71	6	30.6	2.19	2.0					Oak Ridge ^{4,1}	78	6	40.7	0.94	0.4		
Rockland.....	70 ^a	6 ^c	30.6 ^c	1.25	10.5					Oregon a.....	78	6	40.7	0.86	0.2		
Romeo.....	71	3	35.5	2.19	2.0					Oregon b.....	76	5	38.8	0.67	2.1		
St. Ignace.....	58	0	31.8	1.88	13.0					Oscoda ¹	76	1	40.0	3.30	3.0		
St. Johns.....	69	5	35.1	4.76	22.0					Oto.....	76	2	39.0	3.30	3.0		
Sand Beach a.....	71	12	36.1	2.31	.....					Palmyra ^{4,5}	78	8	39.9	4.70	7.0		
Sand Beach b ¹⁰	70	17	36.4	2.31	.....					Phillipsburg ^{4,1}	73	17	42.7	2.88	3.0		
Saranac.....	70	1	33.4	3.75	19.5					Pickering ^{4,3}	74	6	38.7	1.74	0.2		
Sault Ste Marie.....	62	6	32.1	.....	11.3					Platte River ^{4,3}	74	10	36.6	1.46			
Ship Canal ¹⁰	62	6	32.1	.....	.....					Poplar Bluff.....	74	19	45.6	4.90			
Somerset.....	70	8	35.2	3.68	4.7					Potosi.....	72	6	39.4	8.80	3.0		
South Haven.....	69	9	36.6	1.67	10.5					Princeton ^{4,1}	76	3	39.9	1.83	2.0		
Stanton.....	69	3	33.3	3.75	16.0					St. Charles.....	76	14	43.5	3.34	0.2		
Sturgeon Point ¹⁰	61	11	34.2	.....	.....					St. Joseph [†]	76	2	41.0	1.01	T.		
Thornville.....	71	5	36.2	3.74	7.0					St. Louis.....	76	6	40.9	3.35	6.0		
Three Rivers.....	8	.....	.....	3.47	.....					St. Louis (W. B.).....	76	6	40.9	4.49			
Two Heart River ¹⁰	60	0	31.3	.....	.....					Sarcocina ^{4,3}	78	17	41.0	3.64	3.0		
Vandalia.....	70	9	36.6	3.49	10.6					Sheibina.....	76	2	38.6	5.0			
Vermillion Point ¹⁰	57	2	27.7	.....	.....					Sikeston.....	75	23	48.0	6.33			
Ypsilanti.....	73	1	35.0	4.98	3.9					Springfield.....							

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Montana—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Nebraska—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Nevada—Cont'd.</i>	o	o	o	Ins.	Ins.
Butte †	59	— 4	29.2	0.31	6.9	Kimball †	73	— 6	33.1	0.40	4.0	Humboldt †	68	10	39.0	T.	T.
Choteau †	70	— 11	35.6	1.40	14.0	Kirkwood * 1	70	0	31.2	1.18	5.0	Las Vegas	71	24	45.0	0.12	4.1
Cokedale †	60	— 8	31.6	2.96	44.0	Lexington †	68	— 10	32.2	2.30	5.0	Lewers Ranch	69	14	40.3	1.01	
Columbia Falls †	56	— 8	30.5	1.73	7.4	Lincoln	73	1	37.8	0.79	1.8	Lovelock †	70	16	44.1	0.00	
Deer Lodge City †	63	— 8	30.0	0.02	T.	Lynch †	74	— 13	32.9	0.75	4.0	Mill City * 1	70	10	35.4		T.
Dillon †	60	— 13	28.2	0.80	8.0	Lyons	—	—	—	1.40	4.0	Osceola †	62	13	35.2	0.56	11.0
Fort Benton †	65	— 7	33.2	0.70	7.0	McCook * 1	56	2	33.6	1.00		Palisade †	65	3	34.3	0.70	6.0
Fort Custer †	69	— 7	33.6	1.61	9.5	McCool	—	—	—	1.00		Palmetto	70	0	34.8	0.45	4.5
Fort Keogh †	66	— 12	27.9	1.10	11.0	Madison * 1	70	— 2	31.7	1.23	4.2	Reno State University	66	19	40.0	0.20	2.0
Fort Logan †	59	— 5	30.4	0.46	1.8	Madrid * 5	70	— 3	34.2	0.70	7.0	Ruby Valley †	—	—	—	0.61	7.3
Fort Missoula	62	— 2	31.2	0.58	1.0	Marquette	72	— 1	—	1.11	3.2	St. Clair	62	11	37.0	0.21	0.5
Glasgow †	63	— 18	20.7	0.98	1.5	Milford	—	—	—	1.02		St. Thomas	60	19	51.6	0.48	
Glendive †	66	— 16	26.6	1.30	18.0	Minden * 1	72	— 5	35.8	0.92	3.8	San Antonio	65	64	34.2	0.80	1.5
Grantsdale †	64	— 6	23.4	0.16	—	Nebraska City * 1	72	— 7	39.3	0.82	1.0	Silverpeak	68	10	41.0	0.33	
Great Falls †	74	— 2	37.8	0.59	9.7	Nemaha City * 1	75	0	36.4	1.30	1.0	Stofiel	62	5	28.6	1.17	11.5
Havre	—	—	—	—	—	Nesbit †	72	— 8	40.3	1.14	9.0	Sunnyside	70	2	34.6	1.05	4.1
Helena	—	—	—	—	—	North Loup †	69	— 16	33.6	1.16	13.0	Tecoma * 1	62	12	31.7	0.85	3.5
Hogan †	62	— 18	32.3	1.00	10.0	North Platte	—	—	—	1.16		Toano * 1	58	3	39.6	0.20	2.0
Kipp †	60	— 18	28.8	0.40	3.7	Oakdale †	70	— 10	32.4	0.79	3.9	Tuscarora	66	25	42.8	0.71	6.6
Libby †	73	— 2	36.2	1.04	5.0	Odell * 5	70	0	38.3	1.01	1.5	Tybo	60	5	33.7	0.34	5.0
Livingston †	64	— 9	33.3	1.97	19.7	Omaha * 1	68	2	33.3	1.16	4.0	Verdi †	68	18	38.8	0.76	2.5
Manhattan †	63	— 9	30.3	0.81	3.1	Omaha (W. B.)	—	—	—	1.16		Wadsworth * 1	60	14	31.7	0.45	4.0
Martinsdale †	58	— 1	33.0	0.79	7.9	O'Neill * 1	70	— 10	33.1	0.55	5.5	Wells	60	7	33.1	0.53	8.0
Marysville †	54	— 5	29.8	1.01	21.0	Ord	70	— 8	36.2	1.51	4.8	Winнемucca	—	—	—	1.8	
Miles City	—	—	—	—	—	Osceola	—	—	—	0.85	2.0	Yerington	63	9	35.6	0.50	2.0
Raderburg †	62	— 4	34.5	T.	T.	Ough †	—	—	—	0.70	4.0	<i>New Hampshire.</i>	64	8	35.9	5.80	4.0
Red Lodge †	72	— 10	30.0	3.00	30.0	Palmer a * 1	72	— 10	31.3	0.80	3.0	Alstead * 6	64	0	34.6	5.77	
Sun River †	63	— 12	32.3	0.49	5.0	Palmer b	—	—	—	0.85		Belmont	—	—	—	—	
Toston	71	— 4	31.7	0.70	7.0	Plattsmouth †	—	—	—	1.60		Berlin Mills	68	— 3	34.9	5.98	14.5
Troy †	62	— 9	35.2	1.52	T.	Plattsmouth b * 1	72	2	41.4	1.58	3.0	Bethlehem	66	16	41.2	6.51	1.0
Utica †	63	— 13	32.3	0.80	8.0	Potter * 1	74	0	33.5	0.35	3.5	Brookline * 1	62	13	39.0	5.59	4.0
Virginia City †	65	— 1	38.4	0.76	7.5	Springfield * 1	76	— 2	36.2	1.20	3.0	Concord	67	6	38.4	6.54	6.0
White Sulphur Springs †	62	— 6	31.0	0.90	11.0	Springview	74	— 13	32.0	1.15	7.9	Dublin	67	14	39.6	7.35	1.0
Wibaux †	70	— 8	30.0	0.80	8.0	Stanton * 1	71	— 1	33.1	0.88	3.8	Grafton	72	3	38.4	5.49	7.0
Yale †	63	— 9	31.7	0.60	6.0	State Farm	77	— 2	38.6	0.51	2.5	Hanover	69	4	36.9	5.17	3.5
<i>Nebraska.</i>	—	—	—	—	—	Stromsburg	—	—	—	0.75		Keene	71	8	38.1	5.34	
Agee * 1	68	— 3	32.6	1.06	6.2	Superior * 5	78	— 2	38.6	0.94	3.0	Lakeport	—	—	—	4.85	
Alliance	—	—	—	—	—	Red Cloud a * 1	68	— 4	38.6	1.00	2.0	Mine Falls	—	—	—	6.10	
Amelia * 1	70	— 4	25.6	0.79	7.9	Red Cloud b * 1	70	— 2	38.6	0.94	3.0	Nashua	72	13	39.6	5.98	2.2
Ansley †	70	— 5	33.8	0.91	3.0	Rulo * 1	78	8	41.8	0.68	T.	Newton	72	10	41.2	6.11	
Arapaho	—	—	—	—	—	Seward * 5	65	0	39.4	1.38		North Conway	73	9	38.1	6.22	8.5
Arborville * 1	75	— 4	36.6	0.98	2.0	Spencer	—	—	—	1.03		Pennichuck Station	—	—	—	6.69	
Ashland a †	74	3	36.7	0.82	2.0	Springfield * 1	76	— 2	36.2	1.20	3.0	Peterboro	68	6	37.7	6.10	
Ashland b * 1	74	3	39.2	1.09	1.8	Springview	74	— 13	32.0	1.15	7.9	Plymouth	69	8	35.1	5.26	1.2
Ashton	69	— 10	34.3	1.03	4.5	Stanton * 1	71	— 1	33.1	0.88	3.8	Sanbornton †	69	7	37.4	5.58	7.0
Auburn * 1	78	— 1	39.1	1.33	1.5	State Farm	77	— 2	38.6	0.51	2.5	Stratford	72	0	36.7	5.84	10.0
Aurora * 1	78	— 4	36.7	0.89	0.2	Stromsburg	—	—	—	0.75		Warren	—	—	—	5.05	6.0
Bassett	73	— 10	27.8	1.54	10.0	Superior * 5	78	— 2	37.2	1.00	0.8	Weirs Bridge	—	—	—	4.78	
Beatrice †	74	0	38.3	1.25	2.0	Sutton	73	— 6	35.8	1.98	3.8	West Milan	70	— 3	34.4	5.64	
Beaver City	70	— 3	38.6	1.22	4.5	Syracuse	73	— 6	35.8	1.98	3.8	Wolfboro	—	—	—	5.64	
Benkelman * 1	64	— 2	35.8	1.17	4.0	Tecumseh a * 1	74	0	36.8	1.03	2.0	<i>New Jersey.</i>	78	16	45.6		
Blue Hill †	72	1	37.8	0.94	1.1	Tecumseh b	—	—	—	0.99		Allaire	78	21	45.2	2.86	
Bratton * 1	74	2	36.5	1.33	1.0	Tekamah	72	— 5	34.9	1.30	4.0	Asbury Park	68	19	40.0	3.21	
Brokenbow * 1	71	— 3	34.7	0.50	5.0	Thedford * 1	78	— 10	33.0	0.86	8.6	Barnegat	76	19	40.0	3.21	
Burchard * 1	75	3	40.6	1.09	7.0	Turlington †	75	— 6	34.8	1.11	1.7	Bayonne	74	21	45.5	4.60	T.
Burwell	—	—	—	—	—	Wakefield	—	—	—	0.93		Belvidere	71	17	43.5	2.31	T.
Callaway †	60	— 10	34.6	0.90	5.5	Weeping Water * 1	72	— 8	34.2	1.11	3.5	Beverly †	78	20	46.6	2.55	
Central City * 5	66	1	40.4	1.06	5.5	Weston * 5	78	6	35.2	0.75	4.0	Billingsport	76	25	45.0	2.88	
Chester * 1	68	— 3	36.0	0.98	2.0	Whitman	—	—	—	0.40		Blairstown	70	23	47.1	2.88	T.
Columbus †	71	— 3	36.7	0.64	3.5	Wilcox * 1	76	2	40.4	1.02	1.0	Dover	70	14	42.1	2.47	
Cornlea	—	—	—	—	—	Wilsonville * 1	70	— 4	37.3	1.05	4.0	Egg Harbor City	77	20	46.6	2.73	
Creighton †	70	— 7	32.4	1.16	1.0	Woodlawn	—	—	—	0.71		Elizabeth †	73	20	44.8	3.38	
Curtis a †	75	— 12	35.3	0.75	4.5	York * 1	68	2	36.8	1.21	2.5	Englewood	70	18	44.6	4.38	T.
Curtis b * 1	80	— 10	38.8	0.40	4.0	Yorke * 1	—	—	—	0.91		Franklin Furnace	68	23	45.2	2.13	T.
David City * 1	73	— 3	36.2	0.95	3.0	<i>Nevada.</i>	—	—	—	1.60		Freetown	76	20	45.8	5.10	
Divide * 1	66	— 4	33.5	0.73	7.5	Austin	56	4	32.7	1.04	10.5	Friesburg	—	—	—	2.97	
Dunning * 1	67	— 2	34.2	1.57	12.0	Battle Mountain * 1	65	14	38.0	0.87	2.8	Gillette	71	18	43.2	2.75	
Edgar * 1	70	2	36.1	0.78	1.0	Beowawe *	50	8	27.4	0.41	4.5	Hammonton	70	19	43.8	3.25	
Ericson †	70	— 4	37.4	0.40	4.0	Candelaria	73	15	42.6	0.10							

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
New Jersey—Cont'd.						New York—Cont'd.						North Dakota—Cont'd.					
Rancocas *	°	°	°	Ins.	Ins.	Middletown	°	°	°	Ins.	Ins.	Ashley †	°	°	°	Ins.	Ins.
Readington *	76	25	40.3	2.44	T.	Mount Morris	75	22	42.6	5.65	T.	Berlin †	56 ^d	-13 ^d	22.0 ^d	1.22	12.2
River Vale	73	26	40.3			Newark Valley	70	19	38.6	2.60	2.0	Bismarck	54	-19	22.0	2.08	8.3
Somerville	71	15	44.2	3.74	T.	New Lisbon	70	6	37.1	2.96	2.0	Church's Ferry	44	-13	17.4	0.65	6.5
South Orange	73	18	45.3	3.82	T.	New York	60	10	37.1	5.48	1.0	Coal Harbor †	53	-9	19.2	1.00	10.0
Toms River	79	16	46.5	4.57		North Hammond †	63	0	34.4	6.39	8.5	Dickinson †	62	-13	21.6	0.94	3.4
Trenton	78	26	48.8	3.82		Number Four †	66	6	37.0	6.5	Ellendale	60	-12	22.0	0.97	9.7	
Vineland	79	18	47.4	3.36		Ogdensburg	72	12	40.6	3.76	Falconer	53	-16 ^e	22.3	0.90	9.0	
Whiting	80	20	47.8	2.86		Oneonta	72	12	40.6	3.76	Fargo †	62	-15	22.3	1.16	0.1	
Woodbine	76	20	46.4	2.89		Oswego	73	9	38.4	3.96	Forman †	53	-22	21.4	1.80	8.0	
New Mexico.						Oxford	73	9	38.4	3.96	Fort Berthold †	63	-15	23.6	1.80	18.0	
Albert	72	12	42.1	0.99	4.3	Palermo	65	18	37.7	2.83	2.3	Fort Yates †	53	-5	24.3	0.70	4.0
Albuquerque †	62	16	36.6	0.85	5.1	Perry City	71	10	37.6	4.16	3.9	Gallatin †	57	-22	19.3	1.09	3.6
Alma †	68	18	43.4	2.65		Phoenix	73	15	38.3		Grafton †	45	-12	23.8	0.90	3.0	
Aztec †	66	11	36.0	2.03	1.5	Pine City	73	15	38.4	2.07	Jamestown †	58	-12	23.8	1.60	16.0	
Bernalillo †	66	19	40.8	1.20		Plattsburgh Barracks	68	4	35.7	5.13	Lakota †	46	-18	18.1	1.14	11.4	
Chama †	74	5	34.8	3.45	34.5	Port Jervis	68	13	40.7	2.90	Laramore †	49	-16	19.2	0.69	6.9	
Deming * ^a	78	28	57.4	0.90		Potsdam	63	1	34.8	1.67	McKinney	55	-18	18.0	0.87	9.2	
Downs Ranch †	70	33	47.0	0.66	3.5	Poughkeepsie	72	13	41.5	2.86	Napoleon †	57	-15	22.3	1.02	8.5	
East Las Vegas	68	2	37.2	0.88	7.9	Remsen	62	10	35.6	5.85	New England City †	76	-6	27.4	1.10	11.0	
Eddy †	77	—	50.6			Ridgeway	70	—	38.4	3.53	Oakdale †	57	-9	24.4	0.78	7.8	
Englet	69	19	43.6	0.70	T.	Rochester	68	15	38.4	4.32	Portal †	52	-19	22.2	1.31	11.8	
Espanola †	61	12	36.8	0.96	6.0	Rome	70	14	40.5	3.80	Power †	59	-16	22.2	0.80	8.0	
Estancia Springs †	70	20	43.6	1.40	9.0	Romulus	70	—	38.4	3.80	St. John †	50	-13	13.3	0.50	5.0	
Fort Bayard	73	20	43.6	1.40	1.0	Rose †	71	—	38.4	3.07	Sheyenne	45	-16	18.0	0.90	3.7	
Fort Stanton †	65	9	37.0	1.24	8.8	Saranac Lake	62	3	38.0	4.48	5.0	Steel †	56	-25	19.2	1.66	13.2
Fort Union †	76	1	39.4	0.88	5.5	Setauket †	68	25	46.2	5.40	University †	46	-12	22.4	1.58	6.2	
Fort Wingate	70	0	35.5	2.60	26.5	Sherwood	70	—	38.0	2.90	Wild Rice †	70	—	21.8	1.86	11.0	
Galisteo †	67	8	38.8	2.10	5.0	Skaneateles	73	15	39.2	3.33	Williston	58	-20	15.4	1.10	23.1	
Gallinas Spring †	70	4	39.1	0.70	3.0	South Canisteo	73	15	39.2	5.06	Woodbridge †	42	-18	16.4	0.09	0.9	
Gila	70	25	46.2	2.19		Southeast Reservoir	68	6	38.4	3.70	Ohio.						
Hillsboro †	63	16	43.4	0.49	T.	South Kortright †	62	5	35.0	5.27	10.0	Akron	72	16	40.8	4.48	1.8
Las Cruces	73	19	45.5	0.45		Tyrone	73	—	38.4	2.99		Annapolis	73	17	42.2	2.38	T.
Lordsburg * ^a	64	28	46.7	1.38		Varysburg	71	10	39.4	3.07		Ashland	71	13	36.0	1.41	1.0
Los Lunas †	70	14	40.2	1.40		Victor	72	13	39.4			Ashtabula	70	22	41.9	4.63	3.0
Monerot	57	3	30.3	1.52	6.5	Wappingers Falls	69	18	42.4	4.00		Atwater	70	—	38.6	1.56	1.5
Ocate †	69	1	35.3	0.75	7.0	Warwick	73	12	40.2	1.80		Auburn	71	8	36.6	5.83	3.0
Olio †	60	2	31.4	0.51	4.0	Waverly	69	11	38.8	3.37		Bangorville	76	17	40.2	2.78	1.5
Pecos				2.08		West Point †	69	20	41.8	5.58		Bellfontaine	76	8	39.3	5.85	1.0
Puerto de Luna †	75	10	45.0	0.88	3.0	Willets Point	68	23	44.7	3.16		Benton Ridge	75	14	39.1	4.97	2.2
Raton †	70	3	35.5	0.27		North Carolina.						Bethany	78	16	40.7	4.74	T.
Rincon †	72	21	46.8	0.54		Asheville	75	19	40.4	2.73		Bigprairie	74	14	41.0	5.02	1.5
Roswell †	80	20	46.5	0.88		Bakersville †	75	19	47.4			Binola	73	17	41.4	4.82	5.0
San Marcial †	68	21	43.5	1.16	3.0	Chapel Hill †	79	25	50.0	4.67		Bissells	74	14	39.8	4.59	2.9
Santa Fe				8.4		Currituck Inlet †	77	26	51.0	3.65		Bladensburg	76	16	40.0	4.34	T.
Taos	73	4	40.0	1.40	5.0	Fair Bluff †	81	27	53.3	2.61		Bloomingburg	82	15	42.8	4.89	T.
New York.						Falkland †	78	25	53.2	2.77		Bowling Green	74	11	38.3	5.87	4.0
Addison	73	18	41.3	2.44	0.5	Fayetteville †	78	25	53.2	2.21		Bucyrus	76	12	38.8	4.30	2.3
Akron				3.72		Flat Rock	73	26	46.6 ^c	3.86		Cambridge	74	17	39.8	4.05	T.
Albany						Greensboro †	76	26	50.8	3.63		Camp Dennison	79	20	48.0	5.10	T.
Alfred	69	11	39.0	3.34	4.1	Greenville						Canal Dover	75	18	40.6	3.46	0.5
Angelica †	68	14	36.8	3.46	4.5	Henderson †	79	25	51.4	4.82		Canton †	73	17	41.1	3.59	0.8
Appleton	68	17	39.3	3.47	3.5	Highlands	64	15	44.4	4.15		Cardington	72	18	41.0	5.85	1.0
Arcade	67	11	37.3	2.77	3.5	Horse Cove †	67	21	48.0	3.75		Carrollton	70	17	41.6	3.25	T.
Atlanta				2.87		Lenoir †	75	23	48.0	2.92		Cedarville	74	24	45.8	5.44	1.0
Avon	73	12	38.4	3.58	1.1	Linville †	65	15	41.6	2.53		Celina	73	17	42.4	5.04	T.
Baldwinsville	69	12	40.0	3.19	2.0	Littleton †	79	25	50.1	1.91		Cherry Fork	80	13	42.4	2.56	0.2
Bedford	76	16	44.4	3.80	0.2	Louisburg †	80	23	50.2	2.40		Circleville a					
Big Sandy * ^a	65	11	38.4	3.22		Lumberton †	78	24	54.9	2.02		Circleville b	78	18	43.0	3.86	T.
Binghamton †	71	5	40.5	2.94		Lynn †	74	27	47.6	3.96		Clarksville	79	15	42.6	5.06	0.5
Bloomerville	60	10	38.0	6.46	0.2	Mocksville †	74	25	51.6	3.11		Cleveland	73	20	41.8	4.71	3.8
Bolivar				4.02		Moncure †	79	25	51.9	3.95		Cleveland (W. B.)	73	20	48.0	5.10	1.3
Boys Corners				2.98		Morganston * ^b	75	25	49.4	1.34		Clifton	80	14	41.8	5.14	0.5
Brentwood	70	18	42.6	5.30		Mount Airy †	74	25	49.6	2.86		Coifton	80	13	42.8	1.47	1.0
Brookfield	72	12	39.8	3.11	3.0	Mount Pleasant	77	19	51.0	2.18		Colebrook	72	16	40.1	4.13	1.0
Brooklyn	72	24	45.0	4.79	T.	Murphy †						Columbus	76	18	42.6	5.82	T.
Buffalo				2.1		Newbern †	84	27	57.0	4.94		Dayton a . .					

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Ohio—Cont'd.</i>	°	°	°	In.	In.	<i>Oklahoma—Cont'd.</i>	°	°	°	In.	In.	<i>Pennsylvania—Cont'd.</i>	°	°	°	In.	In.
Hudson.....	76	15	39.7	5.57	3.0	Woodward†.....	80	17	45.5	1.18	T.	Freepo...†.....	76	20	42.8	3.68	.....
Jacksonboro.....	78	16	41.8	5.35	.....	Albany†.....	62	23	43.6	4.28	.....	Gettysburg†.....	76	20	42.8	1.55	.....
Kenton†.....	79	15	40.8	5.87	1.3	Arlington†.....	68 ¹	11	42.0	0.41	.....	Girardville.....	72	12	38.4	2.71	.....
Killbuck.....	74	16	40.8	4.31	.....	Ashland†.....	64	19	39.4	1.13	1.0	Grampian.....	72	12	38.4	2.57	1.5
Lancaster.....	74	16	41.3	4.30	0.3	Aurora ²	63	27	45.2	4.45	.....	Greensboro†.....	74	24	45.1	3.19	.....
Leipsic.....	75	13	38.0	5.44	1.5	Aurora(near).....	61	23	42.3	5.17	.....	Hamburg.....	74	24	45.1	1.80	.....
Levering.....	75	13	36.9	4.39	.....	Baker City.....	73	28	47.6	5.86	1.1	Harrisburg.....	75	13	42.2	0.97	T. T.
Logan.....	78	10	48.0	2.71	1.0	Bandon.....	73	28	47.6	5.86	.....	Hollidaysburg.....	75	13	42.2	0.97	T. T.
Lordstown.....	71	17	38.8	3.01	1.8	Beulah†.....	56	5	32.6	0.10	1.5	Honesdale.....	70	18	41.2	2.16	.....
McArthur.....	78	14	42.4	1.52	.....	Brownsville ²	64	20	42.3	3.81	.....	Huntingdon ¹	75	15	43.6	1.07	.....
McConnellsburg.....	78	15	45.2	2.17	1.0	Burns†.....	68	3	30.3	.....	Huntingdon ²	75	15	43.6	1.81	.....
Marietta a†.....	78	22	43.9	1.98	0.1	Canyon City†.....	75	10	43.0	0.30	.....	Johnstown†.....	72	12	37.6	1.0	.....
Marietta b.....	78	17	41.4	3.70	0.2	Cascade Locks.....	65	23	43.6	8.87	.....	Karthaus.....	72	12	37.6	2.13	.....
Medina.....	75	15	40.0	4.87	2.1	Comstock ²	66	18	41.9	3.52	.....	Keating.....	75	20	45.6	0.24	0.2
Milfordton.....	78	14	39.6	3.73	T.	Corvallis a.....	62	21	41.8	4.64	.....	Kennett Square.....	75	20	45.6	1.80	.....
Milligan.....	79	8	42.4	2.18	T.	Corvallis (near).....	60	23	42.8	4.99	.....	Lancaster.....	78	21	44.8	1.36	.....
Millport.....	73	19	44.0	3.81	3.9	Dayville†.....	7	7	.....	Lebanon.....	76	20	44.0	1.95	0.8		
Montpelier.....	74	12	36.4	4.74	3.0	Eugene†.....	60	22	42.6	3.56	.....	Le Roy†.....	68	14	38.8	3.06	0.3
Napoleon.....	72	14	37.2	3.24	3.8	Fife†.....	69	24	34.4	0.35	1.5	Lewisburg.....	74	19	42.8	2.96	T.
New Alexandria.....	73	19	43.4	2.41	T.	Forest Grove.....	65	22	41.4	5.01	.....	Lock Haven a†.....	73	19	42.8	2.48	2.0
New Berlin.....	73	15	39.8	3.40	T.	Gardiner.....	64	30	47.6	5.66	.....	Lock Haven b.....	73	19	42.8	2.69	.....
New Bremen.....	74	11	40.5	5.77	3.0	Glens...a†.....	60	21	40.8	13.25	.....	Lock No. 4†.....	72	12	48.0	3.11	.....
New Comerstown.....	73	18	41.0	3.80	T.	Glens Pass a†.....	63	15	40.6	2.14	.....	Lyellipus.....	72	12	48.0	2.75	.....
New Holland.....	75	16	41.0	4.16	0.3	Happy Valley†.....	70	0	33.3	0.30	1.8	Mifflin.....	72	12	48.0	1.91	.....
New Moscow.....	78	13	42.2	3.31	.....	Hood River (near).....	64	17	38.9	3.32	.....	Nisbet.....	72	12	48.0	2.16	.....
New Paris.....	77	13	42.2	5.62	T.	Hubbard.....	60	22	41.4	3.35	.....	Oil City†.....	72	12	48.0	5.11	0.8
New Waterford.....	77	12	39.4	3.50	T.	Irvington ²	58	27	.....	Ottsville.....	72	12	48.0	2.03	.....	
North Lewisburg.....	77	12	40.6	6.15	T.	Jacksonville.....	58	20	38.2	1.74	0.5	Parker†.....	72	12	48.0	4.00	8.0
North Royalton.....	71	18	40.6	4.50	1.0	Joseph†.....	56	3	31.6	0.73	4.2	Philadelphia a.....	72	12	48.0	2.84	.....
Norwalk.....	76	5	40.4	5.55	1.5	Junction City ²	70	20	40.6	3.47	.....	Philadelphia b.....	75	26	46.9	2.08	.....
Oberlin.....	73	10	38.8	6.35	2.5	Klamath Falls.....	74	11	48.7	0.39	3.0	Philadelphia c.....	75	26	49.0	2.08	0.4
Ohio State University.....	77	15	41.0	4.38	0.1	Lafayette ²	66	24	45.5	3.13	.....	Pittsburg.....	72	12	48.0	3.95	.....
Orangeville.....	70	15	39.1	3.25	2.0	Lakeview†.....	62	11	38.2	1.10	11.0	Point Pleasant.....	72	12	48.0	1.50	.....
Ottawa.....	74	12	39.0	5.54	2.0	Langlois.....	79	29	50.2	3.99	.....	Pottstown.....	76	26	45.8	2.20	.....
Pataskala.....	78	14	41.0	5.85	0.4	Lone Rock.....	74	3	36.2	1.03	3.2	Quakertown.....	73	18	43.2	3.60	T.
Peoli.....	74	18	32.0	3.61	1.0	Lorella.....	70	2	38.8	0.50	2.5	Reading ²	72	12	41.2	1.90	.....
Philo.....	75	16	32.9	2.70	T.	McMinnville a†.....	61	22	41.5	5.42	.....	Renovo.....	72	12	48.0	2.30	.....
Plattsburgh.....	78	14	41.5	4.75	T.	McMinnville b ²	60	28	42.2	4.13	.....	Ridgway†.....	72	12	48.0	3.95	0.8
Portsmouth a†.....	78	23	46.4	3.21	.....	Merlin ²	64	14	39.0	2.08	.....	Saegertown.....	71	9	39.8	4.21	8.3
Portsmouth b.....	84	23	46.4	1.33	T.	Mommouth ²	64	28	43.9	3.88	.....	Salem Corners.....	72	15	40.8	4.25	T.
Richwood.....	74	14	42.5	5.25	0.3	Mount Angel†.....	61	23	42.2	4.90	.....	Scranton.....	72	15	41.8	1.74	T.
Ridgeville Corners.....	74	18	37.4	4.84	2.0	Nehalem.....	58	24	43.0	5.05	.....	Seisholtzville.....	72	15	41.8	1.92	.....
Ripley.....	78	19	44.3	2.61	T.	Newberg.....	62	24	43.0	5.05	.....	Selinsgrove.....	73	17	44.5	1.50	.....
Riftman.....	73	12	38.2	3.93	0.5	New Bridge.....	70	10	42.8	0.34	2.0	Shinglehouse.....	67	8	37.5	3.81	4.2
Rockyridge.....	75	8	40.0	5.64	2.2	Newport.....	70	31	47.0	6.45	.....	Sinnamahoning.....	70	6	38.0	3.45	3.0
Rosewood.....	75	12	39.9	5.35	2.4	Pendleton.....	70	14	41.8	1.19	0.6	Smiths Corners.....	72	15	41.8	1.88	.....
Sandusky.....	78	18	42.5	1.1	.....	Riddies ²	58	18	38.9	2.80	.....	Somerset.....	78	11	40.8	2.66	2.0
Sharon Center.....	76	18	42.5	4.06	.....	Salem a ²	62	32	48.6	3.26	.....	South Bethlehem.....	70	26	46.1	.....	.....
Shenandoah.....	78	8	39.0	4.68	1.8	Salem b ²	63	23	43.9	3.71	.....	South Eaton.....	71	14	41.7	3.44	.....
Sidney b.....	74	14	39.8	5.59	0.2	Salmon.....	68	10	36.2	9.96	35.0	Spruce Creek.....	71	16	41.9	1.74	0.2
Sinking Spring.....	75	13	43.0	2.63	T.	Sheridan ²	63	24	45.8	4.45	.....	State College.....	71	16	41.9	2.08	.....
Springboro.....	74	13	42.8	4.98	1.0	Silverton ²	60	20	41.5	4.79	.....	Sunbury.....	71	16	41.9	2.03	.....
Steubenville.....	74	13	42.8	4.85	1.8	Siskiyou ²	70	25	42.4	.....	Swartzmore.....	74	31	44.6	1.73	.....
Stoutsville.....	78	7	35.8	5.40	3.5	Sparta.....	55	12	33.6	1.95	12.0	Towanda.....	75	19	41.8	2.22	T.
Sylvania.....	78	20	42.7	0.87	.....	Springfield ²	62	17	36.3	3.80	.....	Uniontown.....	74	23	44.4	2.67	1.0
Tiffin†.....	73	12	40.9	5.72	3.2	The Dalles†.....	68	17	41.8	1.90	0.2	Warren†.....	74	23	44.4	5.73	5.0
Toledo.....	74	17	40.8	5.72	2.5	Vale.....	61	6	34.4	0.14	.....	Waterville.....	72	12	48.0	1.73	.....
Upper Sandusky.....	73	17	40.8	5.72	2.5	West Fork ²	63	24	48.8	4.37	.....	Wellsboro ² †.....	75	18	38.0	3.67	0.5
Vanceburg.....	79	23	46.4	1.98	T.	Weston.....	69	12	38.8	1.73	.....	West Chester.....	73	22	45.6	1.55	.....
Van Wert.....	71	11	39.7	5.17	3.0	Williams.....	62	17	40.0	2.37	.....	West Newton†.....	73	24	44.6	3.17	T.
Vermilion.....	74	13	39.8	5.37	7.0	Altoona.....	72	23	44.4	1.30	.....	Westtown.....	73	24	44.6	1.42	T.
Vickery.....	75	11	39.7	5.33	3.7	Aqueduct.....	77	21	43.3	2.20	.....	White Haven.....	68	13	40.6	2.95	T.
Walnut.....	78	14	40.0	4.40	T.	Beaver Dam.....	.....	.....	3.35	.....	Wilkesbarre†.....	74	21	48.0	1.37	.....
Warren.....	78	18	40.0	3.43	T.	Bethlehem.....	.....	.....	.....	.....	Williamsport.....	73	21	41.1	1.95	.....
Warsaw.....	76 ¹	11 ²	38.3 ³	3.24	T.	Brookville†.....	.....	.....	3.00	1.0	York†.....	77	20	43.6	1.80	T.	
Wauseon.....	78	18	37.8	6.30	4.6	Browers Lock.....	.....	.....	.....	.....	Rhode Island.	.....	.....	.....	.....	.....
Waverly.....	80	19	43.3	5.04	T.	Cameron.....	75	19	42.8	2.48	0.1	Bristol.....	65	23	44.0	5.26	.....
Waynesville.....	76	19	43.3	5.04	T.	Carlisle.....	68	16	41.2	2.21	5.5	Kingston.....	72	15	43.9	4.25	.....
Wellington.....	75	15	42.6	4.75	2.0	Cassandra.....	68	16	41.2	3.60	.....	Londsdale.....	72	15	43.9	7.77	.....
Westerville.....	75	15	42.0	4.36	1.0	Cedar Run.....	75	19	42.8	2.46	.....	Pawtucket.....	71	24	44.1	8.56</	

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>South Carolina—Cont'd.</i>	°	°	°	In.	In.	<i>Tennessee—Cont'd.</i>	°	°	°	In.	In.	<i>Utah—Cont'd.</i>	°	°	°	In.	In.
Pinopolis *1	74	32	54.3	4.46		Springdale *1	76	32	50.3	2.64		Fort Duchesne †	57	11	27.1	0.90	9.1
Port Royal †	76	37	55.1	2.80		Trenton	75	32	47.9	7.23		Grover †	65	3	31.4	1.25	13.0
Ridgeway †	76	38	52.4	1.55		Tullahoma †	77	38	47.0	2.40		Huntsville	—	—	—	3.07	13.0
St. George †	80	38	54.7	1.66		Waynesboro *1	73	19	48.5	1.70		Keeton *8	49	18	32.7	0.05	0.5
St. Matthews †	82	38	54.5	1.96		<i>Texas.</i>						Koosharem	65	—	30.4	2.00	
St. Stephens †						Abilene						Levan †	61	—	33.9	1.63	10.0
Santuck †	77	32	51.2	4.43		Albany *†	70	27	50.1	2.24		Loat †	59	5	30.0	0.50	5.0
Shaws Fork *1	86	33	58.0	0.40		Amarillo	87	32	61.2	2.50		Logant †	62	5	31.8	1.70	
Society Hill †	77	35	53.4	2.04		Arthur City †	86	30	60.8	9.35		Manti †	74	—	38.7	1.25	12.5
Spartanburg †	77	33	51.2	3.00		Aurora *1	81	24	52.2	3.68		Millyville †	—			2.38	
Statesburg †	80	33	54.2	1.77		Austin a †	80	30	59.7	3.10		Moab †	61	17	38.5	1.38	0.1
Trenton	80	33	55.8	2.18		Ballinger †	77	31	62.2	0.94		Moroni †	—			1.47	17.5
Trial †	88	36	57.1	1.67		Beeville †	88	32	59.4	2.53		Mount Pleasant *†	71	4	35.4	1.90	20.0
Yemassee †	82	38	55.3	2.61		Boerne *†	78	29	55.2	4.75		Ogden a *8	60	21	35.5	1.71	6.0
Yorkville.	78	34	53.0	3.18		Brady †	80	30	54.0	3.50		Pahrahn †	65	19	39.0	1.50	1.0
<i>South Dakota.</i>						Brazoria †	80	32	61.2	7.00		Parowan †	63	3	34.8	1.28	11.5
Aberdeen	68	—14	24.1	3.86	12.5	Brenham †	80	30	56.1	2.47		Promontory *8	68	13	34.6	0.80	8.0
Alexandria †	70	—15	20.4	1.32	2.5	Burnet *†	80	30	56.3	3.35		Provo City	—			2.4	
Ashford †	66	—5	28.4	0.50	5.0	Camp Eagle Pass †	82	30	56.6	2.15		St. George †	74	11	42.2	1.01	
Brookings †	67	—7	29.4	1.02	3.5	Chillicothe	78	16	45.4	0.25		Salt Lake City	—			16.0	
Buffalo Gap *	68	3	23.3	0.30	3.0	Coleman *3	74	24	50.2	1.04		Scipio	65	4	32.0°	1.35	10.0
Castlewood †	63	—14	25.3	2.05	4.0	College Station	77	24	56.0	4.67		Snowville †	60	2	31.2	1.80	13.0
Clark †	64	—12	26.6	2.32	7.5	Colmesnell	—					Soldier Summit †	50	5	23.4	1.90	10.0
Cross †	65	—2	30.2	1.00	13.8	Columbiat	80	31	59.0	1.55		Terrace *2	70	17	31.3	0.42	4.2
De Smet †	63	—12	28.0	0.86	3.8	Corsicana a †	86	25	53.6	4.46		Thistle †	61	4	28.9	1.61	16.1
Edgemont						Corsicana b †	81	23	53.0	6.10		Vernal	50	1	29.6	1.33	11.1
Farmingdale						Cuero †	86	33	50.6	3.83		<i>Vermont.</i>					
Faulkton †	69	—8	26.8	1.12	2.0	Dallas †	80	24	49.8	3.84		Brattleboro	71	13	39.2	8.86	8.5
Flandreau †	70	—10	28.0	1.23	8.0	Deant h	80	10	41.6	0.65		Burlington †	68	8	40.0	4.82	8.0
Forestburg †	69	7	27.5	1.24	4.4	Dublin †	80	21	49.9	1.41		Chelsea †	66	1	33.8	5.91	10.0
Forest City †	70	0	29.3	0.00		Dumbart †	—					Cornwall	69	1	37.8	4.88	7.0
Fort Meade	70	—5	32.7	2.38	21.0	Duval *1	81	30	56.6	4.38		Enosburg Falls †	—			6.24	5.5
Gary †	65	—7	28.2	1.76	11.0	Estelle †	81	21	51.2	4.61		Hartland †	73	2	35.8	5.84	4.5
Goudyville *1	57	—1	26.9	0.96	1.0	Flower Bluff	84	34	63.4	2.97		Irasburg †	64	7	34.1	5.98	8.0
Greenwood	71	—1	34.6	1.01	4.8	Forestburg †	72	26	50.4	4.02		Jacksonville	65	8	34.3	4.65	6.0
Highmore †	69	—3	27.8	1.15	5.5	Fort Brown †	84	41	65.5	1.84		Northfield	—			7.4	
Hotch City †	73	—5	29.7	0.68	4.8	Fort Clark	77	39	57.8	2.07		Norwich	68	1	37.3	5.88	6.0
Howard †	68	—10	24.6	1.29	7.0	Fort McIntosh	83	33	60.0	0.86		St. Johnsbury	65	2	34.7	6.08	6.5
Huron						Fort Ringgold †	86	38	62.0	1.19		Simonsville	68	4	35.8	5.39	6.0
Kimball †	70	0	30.6	1.45	6.5	Fort Stockton	—					Strafford *†	66	4	35.7	4.86	7.0
Leslie †	79	—6	27.6	0.02	0.2	Fort Worth †	79	25	54.0*	2.45		Vernon *	70	16	38.2	5.13	3.3
Millbank †	62	—12	26.6	1.20	8.0	Fredericksburg *†	75	28	52.3	1.74		Wells	68	5	37.4	5.25	5.5
Northville *1	60	—4	26.4			Gainesville †	79	24	51.2	3.97		Woodstock	71	2	35.2	5.36	5.5
Nowlin †	74	—11	30.8	0.03		Georgetown *1	78	32	52.9	4.01		<i>Virginia.</i>					
Oelrichs †	65	—3	31.8	1.50	15.0	Golindol	—					Abingdon †	—			2.77	0.5
Parker †	67	—10	29.4	1.90	5.0	Goree *†	76	15	47.2	2.08		Alexandria	73	28	45.0	0.69	T.
Pierre						Graham †	78	10	49.6	4.17		Ashland †	80	22	48.8	2.62	
Plankinton †	73	—6	29.0	0.70	2.0	Grape Vine †	80	22	53.1	5.49		Avon †	80	19	48.4	2.88	
Rapid City						Hale Center †	80	18	48.4	0.80		Bedford City †	70	27	47.1	2.04	
Rochford						Hallettsville	83	31	57.4	3.01		Big Stone Gap †	76	16	48.6	2.81	1.0
Silver City						Happy †	75	14	49.0	0.77		Birdsneck *†	80	33	51.8	2.45	
Sioux Falls †	67	—6	30.1	0.88	4.8	Haskell †	73	17	47.9	2.10		Blacksburg	75	15	48.0	1.44	T.
Tyndall †	75	—5	35.2	0.93	4.0	Hewitt	—					Buchanan †	70	12	46.8	3.12	T.
Vermillion	70	—9	32.5	0.50	2.0	Houston †	79	34	58.5	4.91		Buckingham †	80	21	49.4	1.86	T.
Watertown †	65	—20	25.6	1.17	9.0	Huntsville †	79	30	55.4	2.60		Callaway †	77	26	49.4	2.09	
Webster †	70	—16	26.2	4.80	21.0	Kent	—					Charlottesville	77	22	49.0	1.77	T.
Wentworth †	68	—7	28.0	1.06	2.2	Kerrville †	77	26	50.5	4.22		Christiansburg †	—			1.71	
Wessington Springs †	67	—2	30.3	0.87	3.0	Lampasas †	79	27	54.6	3.20		Dale Enterprise †	77	18	42.2	1.42	0.2
Yankton †	73	—2	33.0	1.24	8.3	Llano *†	75	30	54.0	1.80		Fredericksburg †	81	26	48.8	1.56	
<i>Tennessee.</i>						Longview †	80	28	52.2	2.66		Hampton	76	32	51.8	2.72	
Andersonville *1	75	23	46.1	1.99		Luling †	81	31	56.7	3.48		Hot Springs	74	20	46.4	0.80	T.
Ashwood *†	74	23	50.8	2.40		Marshall †	81	28	54.1	5.70		Irvine †	77	21	47.3	2.00	
Bolivar †	76	20	47.9	4.37		Menardville *†	76	22	50.0	3.33		Lexington †	77	21	46.3	1.99	0.2
Bristol †	77	24	47.6	3.36	0.2	Midland †	85	15	52.6	1.70		Lynchburg	—				
Byrdstown †	73	20	48.4	2.15	0.3	Mount Blanco †	80*	6	44.4	0.14		Manassasf	79	20	45.8	1.14	T.
Carthage †						New Braunfels †	77	30	55.6	4.15		Marion †	75	21	47.6	1.98	
Chattanooga						Orange †	78	33	57.0	4.21		Monterey †	70	18	40.8	1.30	0.1
Clarksville †						Panter †	81	35	50.0	3.26		Nottoway	80	22	49.6	2.58	
Clinton †	77	22	47.6	4.68	T.	Paris †	81	35	50.0	3.76		Petersburg †	75	25	49.2	2.76	
Covington †	78	26	52.0	7.52	T.	Rockport *†	82	36	61.8	1.82		Richmond (near) †	83	24	49.8	3.77	
Dyersburg †	75	24	48.0	7.66	T.	Rocky Springs †	80	21	52.7	1.82		Richmond b †	74	24	50.4	6.45	1.0
Elizabethton †	70*	25	47.8	2.40	T.	San Antonio	86	31	59.9	2.96		Rockymount †	81	25	51.0	1.85	
Fairmount *1	70*	25	47.8	2.40	T.	San Marcos †	85	29	56.6	1.32		Salem †	81	25	48.6	1.74	
Florence †	75	22	50.2	0.02	T.	Sierra Blanca †	85	29	56.6	6.60	</td						

TABLE II.—*Meteorological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.					
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			
Washington—Cont'd.	°	°	°	Inch.	Inch.	Wisconsin.	°	°	°	Inch.	Inch.	Wyoming—Cont'd.	°	°	°	Inch.	Inch.	Mexico.	°	°	°	Inch.	Inch.
Ellensburg (near)	62	8	25.9	0.25	2.0	Amherst	72	- 1	31.6	1.41	12.0	Fort Yellowstone†	56	- 10	26.0	1.80	13.0	Cludad P. Diaz	77	36	58.9	2.00	
Fort Simcoe	68	18	40.7	0.68	T.	Antigo †	70	- 5	28.1	1.03	9.4	Lander (V. O.)	65	- 6	28.1	1.97	21.5	Leon de Aldamas	51	44	63.3	1.59	
Fort Spokane	67	10	34.4	0.49	0.9	Apollonia *†	64	- 1	32.2	0.73	3.0	Lander (W. B.)	56	- 4	26.0	0.93		Mexico	75	44	59.4	0.34	
Grand Mound†	62	20	41.4	5.77		Barron †	68	- 4	26.2	0.80	4.5	Laramie	56	- 4	26.0	0.93		Puebla	79	46	63.0	0.18	
Hunters†	52	8	29.7	0.96	8.5	Beloit	68	-	33.4	2.11	7.0	Lusk†	62	- 10	28.6	1.23	3.0	Topolobampo *†	85	58	71.8	2.02	
Lakeside†	58	20	36.7	0.51	4.0	Black River Falls†	70	- 3	30.2	0.78	6.5	Sheridan	69	- 18	29.0	1.07	9.5	New Brunswick					
Lapush†	63	31	47.2	9.59		Boscobel†	72	-	33.5	2.47	6.0	Sundance	61	- 2	29.0	2.73	25.0	St. John	56	11	38.8	0.80	8.0
Madrone *†	62	23	44.6	3.67		Butternut†	71	- 5	28.5	0.72	2.2	Wheatland†	68	- 0	33.8			West Indies					
Monte Cristo†	56	24	39.4	10.92	48.0	Centralia	71	- 2	31.9	1.25	5.0	Grand Turk Island						Mexico					
Moxee Valley†	67	8	40.8	0.31	T.	Chilton	70	- 0	30.7	1.35	4.7												
Neah Bay						City Point	71	-		0.82	4.2												
New Whatcom†	61	34	44.6	3.68		Crandon†	65	- 6	33.6	2.20	20.0												
Olga†	60	32	44.5	4.21		Delavan†	69	- 8	32.2	1.93	10.0												
Pine Hill†	62	15	39.7	1.68	0.2	Deperet	71	4	32.0	1.71	9.7												
Pomeroy†	68	21	43.3	0.87	2.0	Eau Claire	70	- 1	31.9	1.88	7.0												
Pullman	58	12	36.2	2.54	3.0	Florence†	55	- 4	26.7	0.99	11.9												
Rosalia†	56	10	36.5	1.52	3.1	Fond du Lac†	68	0	31.0	1.17	5.5												
Silver Creek *†	59	24	40.0	6.67		Grantsburg†	51	-		0.65	6.5												
Snohomish†	61	21	42.9	2.63		Green Bay					7.5												
South Bend†	67	22	45.1	6.60		Hartford																	
Spokane						Harvey†	68	- 1	31.1	2.53	11.4												
Stillaguamish†	56	17	39.4	5.16		Hayward†	67	- 5	28.9	0.82	3.1												
Sunytsidet	67	9	38.6	0.38	0.6	Hillsboro	63	- 0	31.7	1.38	6.0												
Tacoma†	62	26	42.5	4.79	T.	Janesville†	69	- 2	34.1	1.56	7.5												
Tafroosh Island						Kenosha *†	60	5	33.4														
Union†	65	25	44.7	6.63		Koepnick *†	62	- 0	25.6	1.65	14.5												
Vashon†	61	18	39.0	4.33		La Crosse																	
Walla Walla						Lancaster†	69	2	31.6	2.45	10.9												
Waterville†	61	11	38.2	0.20	2.0	Lincoln†	70	- 2	38.0	2.30	8.0												
Wenatchee Lake†	60	15	34.3	10.0		Madison†	66	7	33.2	1.17	3.2												
West Ferndale†	69	24	48.9	5.54		Manitowoc†	52	8	32.7	1.19	5.7												
West Virginia						Meadow Valley†	73	- 3	32.2	1.17	6.3												
Beverly†	76	12	41.4	1.54	1.5	Medford†	70	- 5	28.6	1.84	16.9												
Bloomery†	77	16	41.8	1.84		Milwaukee																	
Bluefield†	82	18	47.1	2.13	2.0	Neillsville†	70	- 2	30.8	1.29	18.4												
Buckhannon a†						New Holstein†	69	- 2	33.2	1.10	4.0												
Charleston†						Oconomowoc†	69	- 2	33.0	1.81	8.0												
Dayton *†	78	20	45.4			Oconto	65	- 1	31.4	1.12	4.5												
Elkhorn†	75	24	49.0	1.95	1.5	Osceola†	69	- 8	29.5	1.14	2.0												
Ella†	73	20	44.4	3.11	T.	Oshkosh†	72	6	34.3	1.71	7.1												
Fairmont†						Pepin																	
Glenville†	76	20	44.7	2.77		Fine River†	74	- 3	30.8	1.64	7.4												
Grafton†	77	22	46.0	2.27	0.8	Port Washington	60	7	33.8	2.79	17.1												
Green Sulphur	75	19	42.6	0.75		Prairie du Chien	73	1	32.3	1.55	3.0												
Harpers Ferry†						Racine *†	52	4	35.2														
Hewett†	77	21	46.0	0.87	4.0	Royalton	67	1	31.2	1.78	12.0												
Hinton a†	78	21	46.8	1.82	1.0	Sharon†	68	- 5	31.7	3.08	17.5												
Leachtown†						Shawano	69	- 2	31.2	1.03	5.0												
Marlinton†	75	14	42.5	1.82	0.5	Spooner†	64	- 3	28.7	0.95	4.5												
Martinsburg†	79	21	43.7	1.50	T.	Stevens Point†	68	1	31.6	1.38	11.6												
Morgantown a†						Sturgeon Bay Canal *†	55	- 2	38.2														
Morgantown b†	75	19	43.8	1.65	T.	Two Rivers *†	54	10	35.0														
New Martinsville†	79	22	43.9	2.70		Valley Junction†	72	- 4	32.1	1.96	8.2												
Nuttallburg†	87	19	46.5	1.75	T.	Viroqua	68	5	31.9	1.50	5.5												
Parkersburg						Watertown†	69	0	32.8	1.98	10.5												
Point Pleasant†	78	22	45.2	2.51		Waukesha†	69	5	33.5	2.11	18.8												
Powellton†	74	19	42.8	2.32	0.5	Waupaca *†	72	0	30.3	1.78	6.0												
Rowlesburg†						Wausau†	65	0	29.7	1.44	9.0												
Sandyville†	78	19	44.1	1.84	2.0	West Bend	70	5	32.5	1.85	10.5												
Spencer†						Westfield†	68	- 2	31.6	1.73	7.4												
Tannery *†	80	18	44.8	4.00	T.	Whitehall†	70	- 6	30.6	0.88	5.0												
Weston a†						Wyoming																	
Weston b†	78	20	44.2	2.87	1.0	Big Horn Ranch†	57	- 7	28.8	1.23	13.0												
Wheeling a†						Cheyenne					6.3												
Wheeling b†	71	26	44.3	2.51	T.	Fort Laramie†	69	- 1	34.5	1.05	9.0												
Wheeling b†						Fort Washakie	65	- 12	27.6	1.93	19.3												

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.

† Weather Bureau instruments.

‡ Record furnished by the Arrowhead Reservoir Company, in the San Bernardino Mountains, San Bernardino County, Cal., at elevations varying from 4,900 to 6,90

TABLE III.—Data from Canadian stations for the month of November, 1895.

Stations.	Pressure.			Temperature.		Precipitation.			Prevailing direction of wind.	Total depth of snow.
	Mean not re- duced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.			
St. Johns, N. F.	Inches.	Inches.	Inches.	°	°	Inches.	Inches.	s.	T.	
Sydney, C. B. I.	29.97	30.12	+ .19	37.0	0.0	5.88	.....	w.	2.0	
Grindstone, G. St. L.	30.08	30.14	+ .18	39.4	+ 1.9	7.15	+ 2.43	n.		
Halifax, N. S.	30.03	30.05	.....	35.7	.....	7.19	.....	6.5		
Grand Manan, N. B.	30.02	30.15	+ .15	40.6	+ 2.6	8.21	+ 2.92	nw.	T.	
Yarmouth, N. S.	30.06	30.13	.....	40.4	.....	12.29	+ 7.62	w.	1.6	
St. Andrews, N. B.	30.07	30.15	+ .11	+ 1.4	+ 1.4	7.47	+ 2.20	n.	0.9	
Charlottet' n, P. E. I.	30.08	30.12	.....	38.0	.....	7.98	+ 4.42	nw.	1.0	
Chatham, N. B.	30.11	30.18	+ .15	35.4	.....	6.81	+ 2.31	w.	3.4	
Father Point, Que.	30.06	30.09	+ .13	32.6	+ 2.1	5.86	+ 2.89	w.	10.5	
Quebec, Que.	29.78	30.12	+ .11	30.3	+ 1.8	4.29	+ 2.00	s.	20.3	
Montreal, Que.	29.92	30.14	+ .12	33.5	+ 1.0	5.07	+ 1.51	s.	12.7	
Rockliffe, Ont.	29.58	30.11	+ .11	26.8	- 2.2	3.60	+ 0.86	se.	18.0	
Kingston, Ont.	29.80	30.12	+ .08	36.4	+ 0.9	3.89	+ 0.19	sw.	....
Toronto, Ont.	29.74	30.12	+ .08	35.2	- 1.3	4.35	+ 1.81	ne.	3.1	
White River, Ont.	28.67	30.09	.....	19.8	- 0.7	1.74	+ 0.30	s.	10.0	
Port Stanley, Ont.	29.48	30.14	+ .09	36.7	.....	4.82	+ 2.21	e.	2.8	

TABLE III.—Data from Canadian stations—Continued.

Stations.	Pressure.			Temperature.		Precipitation.			Prevailing direction of wind.	Total depth of snow.
	Mean not re- duced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Total.	Departure from normal.			
Saugeen, Ont.	Inches.	Inches.	Inches.	°	°	Inches.	Inches.	s.	14.7	
Parry Sound, Ont.	29.37	30.11	+ .09	34.3	- 1.2	3.92	- 0.21	w.	21.6	
Port Arthur, Ont.	29.38	30.10	+ .08	31.9	- 0.1	4.70	+ 0.77	w.	3.3	
Winnipeg, Man.	29.30	30.09	+ .02	23.3	- 1.2	0.58	- 0.27	n.	4.7	
Minnedosa, Man.	28.11	30.02	- .02	16.8	- 1.2	0.95	- 0.24	n.	10.1	
Qu'Appelle, Assin.	27.68	30.06	+ .03	14.4	- 2.1	1.01	+ 0.28	nw.	8.2	
Medicine Hat, Assin.	27.64	30.02	- .02	27.1	+ 0.1	0.52	+ 0.16	w.	4.0	
Swift Curr't, Assin.	27.36	30.00	- .00	21.8	- 0.2	0.24	- 0.47	w.	2.4	
Calgary, Alberta.	26.92	29.99	- .05	24.6	- 1.4	0.40	- 0.29	w.	4.9	
Prince Albert, Sask.	28.45	30.06	.....	14.0	.....	1.64	.....	s.	16.4	
Edmonton, Alberta.	27.61	30.05	+ .07	24.1	- 2.9	0.92	+ 0.52	sw.	4.4	
Battleford, Sask.	28.20	30.02	.....	17.8	.....	0.63	.....	nw.	5.8	
Spences Br'ge, B. C.	29.21	30.05	.....	28.8	.....	0.25	.....	e.	0.1	
Hamilton, Bermuda.	30.04	30.20	+ .15	72.6	.....	3.59	.....	s.	....
Banff, Alberta.	25.34	30.13	.....	23.8	.....	1.73	.....	sw.	....
Esquimalt, B. C.	30.06	30.09	.....	42.6	.....	3.40	.....	sw.	0.0	
Sable Island.	30.15	.....	.....	45.5	.....	5.96	.....	sw.	....

TABLE IV.—*Mean temperature for each hour of seventy-fifth meridian time, November, 1895.*

TABLE V.—*Mean pressure for each hour of seventy-fifth meridian time, November, 1895.*

TABLE VI.—Average wind movement for each hour of seventy-fifth meridian time, November, 1895.

Stations.	Wind Movement												Wind Movement												Mean.
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	
Abilene, Tex.	8.7	8.3	8.3	8.6	8.4	8.2	8.4	9.0	9.7	10.5	11.6	12.0	12.4	12.5	12.6	12.1	11.9	11.5	8.7	8.0	8.0	8.7	9.2	9.9	
Albany, N. Y.	4.9	5.1	5.1	5.0	5.6	6.2	5.9	6.4	6.4	7.9	8.6	9.8	10.3	10.2	9.6	8.5	6.9	6.2	5.8	5.4	5.0	5.1	5.2	6.7	
Alpena, Mich.	8.0	8.4	8.1	7.7	7.9	7.7	7.8	7.8	8.2	8.9	9.5	10.2	11.2	11.8	12.0	12.1	10.6	9.7	9.1	9.0	8.8	8.6	8.6	9.2	
Amarillo, Tex.	15.0	15.6	16.8	16.6	16.0	15.2	14.7	15.0	14.5	14.9	15.7	16.1	17.3	17.3	16.8	17.1	17.2	15.6	13.8	14.3	15.1	15.1	15.0	14.6	
Atlanta, Ga.	10.4	10.4	10.4	10.3	10.3	10.4	9.8	9.6	9.8	10.4	10.7	10.6	10.5	10.7	10.6	10.7	10.4	8.9	9.0	9.3	10.3	10.8	11.0	10.7	
Augusta, Ga.	3.8	4.4	4.6	4.6	5.1	4.8	4.6	4.4	5.1	6.3	6.5	7.3	8.4	7.9	8.0	7.8	7.2	5.7	5.3	4.7	4.5	4.7	4.6	4.3	5.6
Baker City, Oreg.	5.2	6.1	6.6	6.4	5.8	5.9	5.6	5.7	5.4	5.7	5.2	5.3	4.0	4.9	5.5	6.1	6.2	6.7	5.6	4.0	5.0	5.6	5.6	5.5	5.6
Baltimore, Md.	6.8	7.3	6.9	6.6	6.4	6.5	7.1	7.1	7.4	8.0	8.5	8.6	9.1	9.2	9.0	8.5	7.7	7.0	6.9	6.5	6.2	6.6	7.5	7.5	
Bismarck, N. Dak.	6.8	6.8	6.5	6.7	6.8	6.0	6.0	6.8	6.1	6.9	7.9	7.7	8.3	10.8	10.6	10.7	10.4	9.5	8.8	8.0	7.8	7.5	7.3	7.2	
Block Island, R. I.	16.6	16.9	15.7	15.7	16.4	15.6	15.7	15.3	15.6	16.7	17.0	17.2	16.4	17.1	17.2	16.5	16.6	16.9	17.0	17.4	18.3	17.5	17.1	16.6	
Boston, Mass.	10.5	10.4	10.0	9.6	9.5	9.2	9.3	9.8	10.4	10.9	11.5	12.0	12.0	12.5	12.5	12.7	11.6	11.6	11.7	12.0	11.9	11.2	11.0	11.0	
Buffalo, N. Y.	12.2	11.1	11.3	12.2	12.1	12.0	12.1	11.7	12.1	12.6	13.0	12.4	12.4	12.4	12.4	11.4	10.8	10.0	9.8	10.3	10.4	10.3	11.5	11.7	
Cairo, Ill.	7.0	7.0	6.8	6.6	7.1	7.3	7.4	7.3	8.1	9.5	10.6	9.9	10.1	10.2	10.5	10.8	9.7	8.6	7.7	7.6	7.3	7.9	8.0	8.3	
Cape Henry, Va.	15.3	14.9	14.8	14.9	14.8	14.0	13.6	15.2	15.3	15.9	15.8	15.1	16.2	16.2	16.1	15.4	14.0	14.7	14.8	14.7	14.5	15.0	15.5	15.0	
Charleston, S. C.	8.1	8.1	8.3	8.0	8.1	7.8	8.4	8.6	8.9	9.3	9.3	9.7	9.6	10.2	10.0	8.9	8.2	7.8	7.5	7.7	7.9	8.0	8.2	8.6	
Charlotte, N. C.	6.8	7.3	6.9	7.3	7.2	7.1	6.4	6.6	6.9	8.1	9.4	9.3	9.8	9.8	9.7	9.6	8.2	6.9	6.7	6.9	7.2	7.8	7.3	7.8	
Chattanooga, Tenn.	5.4	5.9	5.5	5.3	5.8	5.6	5.6	5.7	5.8	6.8	7.7	7.9	8.6	8.1	9.4	8.9	8.0	7.2	6.1	6.0	6.3	5.8	6.7	6.7	
Cheyenne, Wyo.	9.5	9.8	10.4	11.4	11.3	10.9	10.9	11.0	11.9	13.8	15.5	16.4	17.0	16.4	16.4	15.3	13.4	11.1	11.0	10.8	10.6	9.4	12.3		
Chicago, Ill.	18.9	18.5	18.7	18.1	18.0	18.5	18.7	18.5	17.9	18.2	19.4	18.8	20.0	19.4	20.0	20.3	20.4	19.8	19.9	20.8	20.5	19.8	19.9	20.5	
Cincinnati, Ohio	6.5	6.5	6.1	6.0	5.9	5.7	5.5	6.0	6.9	7.4	8.2	9.4	8.3	9.0	8.9	8.3	7.5	7.5	7.0	7.1	7.2	7.2	7.2		
Cleveland, Ohio	15.1	15.7	16.1	15.7	16.0	15.7	15.3	14.7	14.2	14.1	13.6	14.0	14.2	13.6	13.8	13.0	12.9	12.1	11.8	12.0	12.2	12.8	13.4	14.0	
Columbia, Mo.	7.3	7.4	8.3	7.8	8.4	8.3	8.5	8.8	8.9	9.0	10.7	10.9	11.2	11.1	11.3	10.8	10.4	8.9	8.8	9.1	9.2	9.0	9.1	9.2	
Columbus, Ohio	6.6	6.5	6.6	5.9	6.2	6.5	6.2	6.3	6.6	6.7	6.8	7.5	7.8	7.3	7.2	6.7	6.2	6.7	6.7	6.9	6.9	6.6	6.7		
Concordia, Kans.	9.2	8.6	7.9	8.6	8.5	8.1	8.0	7.4	8.3	9.5	9.6	10.3	10.2	10.2	9.4	8.5	7.4	7.4	8.1	8.9	9.7	10.8	8.8		
Corpus Christi, Tex.	9.0	8.2	8.2	8.6	8.4	9.0	9.1	9.7	9.2	9.5	10.3	10.7	11.2	11.9	11.9	11.0	10.3	9.4	9.3	10.0	9.4	9.4	9.8		
Davenport, Iowa	9.1	8.9	9.3	8.9	9.2	8.7	8.4	9.0	8.8	9.5	10.4	11.2	11.5	11.6	11.2	11.3	11.2	11.3	9.9	9.5	9.4	9.5	9.4	9.8	
Denver, Colo.	6.6	7.5	7.1	7.0	8.4	7.7	8.3	8.1	7.4	7.3	7.1	7.0	8.5	9.2	9.7	10.1	9.6	8.0	8.4	7.4	7.7	7.2	7.0	8.0	
Des Moines, Iowa	8.1	8.8	8.8	8.2	8.3	8.5	8.0	8.5	8.5	9.6	11.1	11.7	11.5	11.6	11.4	11.5	11.1	10.0	8.9	8.8	7.8	8.1	9.3		
Detroit, Mich.	10.7	10.5	10.4	11.1	11.0	11.4	10.6	10.8	10.4	10.8	11.7	11.9	11.9	11.7	11.3	10.9	10.2	9.9	10.1	10.1	10.7	11.2	10.9		
Dodge City, Kans.	10.3	10.5	10.6	10.2	10.0	9.6	8.5	8.2	7.9	8.4	10.9	12.3	12.3	12.6	13.4	13.6	12.0	9.1	8.8	9.7	10.2	10.7	10.6		
Duluth, Minn.	7.3	7.8	7.6	7.3	7.4	7.1	7.4	7.8	8.7	9.1	8.8	7.6	8.0	8.2	8.0	7.5	6.8	5.4	5.8	7.1	7.6	6.9	7.3	7.5	
Eastport, Me.	11.6	11.6	11.9	11.8	11.5	11.8	11.7	11.5	12.3	12.5	12.6	13.1	12.4	12.6	12.9	11.4	11.7	12.2	12.0	12.7	12.9	12.8	11.8	11.7	
El Paso, Tex.	10.0	9.9	8.4	8.1	8.8	8.1	7.8	7.3	8.2	8.0	8.6	8.9	12.4	13.7	14.6	15.7	14.6	13.3	11.1	10.0	10.1	11.4	10.8		
Erie, Pa.	11.5	12.0	12.1	12.2	11.9	12.3	12.4	12.8	12.8	12.8	12.8	11.9	11.9	11.5	10.7	10.4	9.9	9.4	10.4	11.5	11.5	11.5			
Eureka, Cal.	4.0	4.2	4.0	3.3	3.4	3.9	4.2	4.4	4.4	4.8	4.8	4.7	4.7	6.0	6.2	7.5	8.3	8.6	7.7	6.5	5.9	4.9	4.7	5.2	
Fort Canby, Wash.	12.6	12.8	12.1	12.3	12.2	12.2	12.3	12.9	12.8	12.8	12.0	11.5	11.4	12.1	12.8	14.1	13.3	13.0	13.9	13.9	14.1	12.8	12.0	12.7	
Fort Smith, Ark.	5.2	5.7	5.9	5.5	5.8	5.6	5.8	6.4	6.9	7.2	7.1	6.7	7.0	7.9	7.9	9.2	8.7	7.3	6.8	6.4	5.7	5.2	5.6		
Fresno, Cal.	4.0	4.2	3.6	3.8	4.1	4.1	4.3	4.3	3.7	3.7	3.5	3.1	3.5	3.5	3.5	3.4	3.8	4.5	4.1	3.6	3.5	3.7	3.6		
Galveston, Tex.	12.3	11.5	11.2	11.1	11.1	10.9	11.0	11.1	11.1	11.3	11.3	11.6	11.8	11.8	11.8	11.5	11.0	11.4	11.2	11.3	12.0	11.4	11.4		
Grand Haven, Mich.	10.2	10.4	10.3	10.2	10.5	9.7	9.6	10.5	10.5	10.5	9.3	10.3	11.6	12.0	12.0	11.7	11.8	10.0	10.1	10.4	10.4	10.7			
Green Bay, Wis.	8.4	8.1	7.6	8.1	8.2	8.3	8.5	8.5	8.5	9.4	10.2	10.6	10.6	11.3	10.5	10.4	10.1	8.8	8.4	9.1	8.1	7.8	8.4		
Hannibal, Mo.	8.4	8.4	8.6	8.7	9.3	8.8	8.9	8.0	8.4	9.6	10.9	11.1	12.0	12.3	12.7	13.5	13.7	13.8	13.2	11.6	11.8	12.1			
Harrisburg, Pa.	5.2	6.1	5.5	5.2	5.3	5.9	6.6	6.6	7.0	7.4	7.7	7.7	7.5	8.8	8.3	7.5	6.9	6.7	6.1	5.4	5.3	5.0	5.2		
Hatteras, N. C.	15.4	15.7	15.6	15.7	16.3	16.5	16.1	16.6	16.7	16.9	16.7	16.6	17.6	17.6	17.5	16.9	16.7	17.0	15.9	15.9	16.1	16.0	16.5		
Havre, Mont.	8.6	9.2	9.0	9.8	10.0	10.0	9.9	10.5	10.0	9.3	9.3	10.3	11.6	12.2	12.6	13.0	11.7	10.9	9.5	8.5	8.5	8.7	9.3		
Helena, Mont.	8.1	7.8	7.3	7.6	7.8	8.1	7.9	7.5	8.2	7.8	7.4	9.4	8.8	8.8	10.1	10.3	9.3	9.5	9.7	9.1	8.9	9.0	7.8		
Huron, S. Dak.	11.0	10.8	10.9	10.8	11.4	11.6	11.3	11.2	11.1	11.3	12.0	12.0	12.7	13.5	13.7	13.8	13.3	12.1	11.6	11.8	12.2	12.2	11.8		
Idaho Falls, Idaho	5.8	5.7	5.5	5.4	5.5	5.5	5.2	5.7	6.2	6.2	5.9	5.7	6.3	6.4	7.1	7.5	7.4	7.0	6.8	6.3	6.2	6.0	6.2		
Independence, Calif.	8.3	8.4																							

TABLE VI.—Average wind movement, etc.—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Pensacola, Fla.	9.5	9.3	8.8	9.1	8.7	8.8	9.5	9.3	10.0	10.8	11.3	10.9	10.3	9.9	9.6	9.0	7.9	8.2	8.4	8.3	8.4	9.3	9.1	9.1	9.3
Philadelphia, Pa.	9.3	9.5	9.2	9.1	9.1	9.2	9.5	9.7	10.4	10.7	11.1	11.0	12.0	12.0	11.1	10.8	10.6	9.8	9.2	9.3	9.4	9.3	9.4	9.1	10.0
Phoenix, Ariz.	4.2	4.4	4.3	4.1	4.0	4.5	4.1	3.9	3.7	3.7	3.8	5.1	5.4	5.8	6.8	6.8	5.9	5.3	4.2	3.6	3.2	4.1	4.4	4.5	4.6
Pierre, S. Dak.	6.3	5.6	5.5	5.7	5.8	5.0	5.3	5.4	5.7	5.9	7.1	7.8	7.9	8.1	9.0	9.7	8.7	8.2	6.8	6.7	7.8	7.4	7.0	7.0	7.0
Pittsburg, Pa.	5.8	5.5	5.6	6.0	5.9	5.6	5.6	5.9	6.0	6.4	7.3	7.7	8.0	7.3	7.3	7.0	6.3	6.0	6.0	5.9	5.7	5.7	5.7	6.4	
Port Angeles, Wash.	4.9	4.9	4.9	4.8	4.6	4.7	4.6	4.7	4.6	4.5	4.4	3.8	3.2	3.2	3.7	4.3	4.8	5.0	3.9	4.6	4.8	5.0	4.9	5.0	4.5
Port Huron, Mich.	11.6	11.5	11.5	12.0	12.4	12.7	12.9	12.5	11.6	11.9	11.4	11.8	12.7	12.5	12.0	11.8	11.8	10.8	11.7	11.4	12.1	12.8	12.9	12.0	
Portland, Me.	6.1	6.0	6.4	6.6	7.0	6.8	6.5	6.8	6.9	6.5	6.8	7.5	7.8	7.8	8.1	7.8	7.1	7.1	6.5	6.0	6.2	5.9	6.0		
Portland, Oreg.	7.1	7.0	7.0	7.2	7.5	7.3	7.1	7.0	6.9	7.4	6.3	6.7	7.7	8.0	8.6	8.9	8.7	8.4	7.9	8.1	7.7	7.1	7.5	7.5	
Pueblo, Colo.	6.0	5.6	5.5	6.1	5.4	4.8	5.1	5.3	5.5	5.0	5.1	6.7	7.3	8.4	9.1	9.4	10.3	9.5	8.1	6.7	5.8	5.4	6.4	6.5	6.6
Raleigh, N. C.	5.9	6.3	6.8	6.4	6.9	6.7	6.5	6.9	7.4	8.4	8.9	9.1	9.4	9.1	9.0	8.6	8.8	5.2	5.8	6.2	6.6	6.4	6.3	7.1	
Rapid City, S. Dak.	8.6	8.0	7.8	8.7	7.8	7.4	7.0	6.3	6.8	5.9	5.9	6.7	8.4	9.3	10.2	10.0	8.5	7.1	7.6	8.2	8.6	9.1	8.9	8.0	
Red Bluff, Cal.	5.4	5.3	5.7	6.5	5.5	5.7	5.7	5.8	5.4	5.6	5.5	6.6	7.2	8.3	8.6	9.5	9.6	9.1	8.3	6.5	6.4	6.1	5.6	5.8	6.6
Rochester, N. Y.	6.3	7.0	7.2	7.5	7.9	8.0	8.1	8.1	8.9	9.4	9.8	9.4	9.8	9.7	9.8	9.7	9.2	6.9	6.5	6.3	6.3	6.5	7.6	7.6	
Roseburg, Oreg.	2.2	1.9	2.4	1.9	2.0	3.0	2.6	2.7	2.0	3.6	2.4	2.7	3.2	3.4	3.6	3.9	4.8	5.0	4.9	3.7	2.8	2.6	2.3	2.3	2.9
Sacramento, Cal.	9.6	10.0	9.4	8.7	8.5	7.3	7.1	7.1	6.8	6.6	7.0	7.3	7.0	7.5	7.7	8.3	9.0	8.2	7.7	7.2	7.4	8.0	8.1	8.8	7.9
St. Louis, Mo.	10.8	10.8	10.4	10.7	10.4	10.4	10.8	10.6	10.9	11.8	12.7	13.7	13.5	13.6	13.6	13.3	13.3	12.5	12.4	11.9	12.3	11.8	11.3	11.6	11.9
St. Paul, Minn.	6.0	6.1	6.6	6.6	6.7	7.2	7.0	7.8	8.1	7.9	8.9	8.9	9.1	9.1	9.8	8.6	8.4	7.1	6.7	6.1	6.0	6.2	5.9	7.8	
Salt Lake City, Utah.	4.3	4.5	4.8	4.5	4.3	4.2	4.2	4.5	4.6	4.4	4.7	5.1	5.7	5.6	6.7	6.9	6.7	5.6	4.7	4.4	3.6	4.2	4.6	4.4	4.9
San Antonio, Tex.	6.5	6.3	6.5	6.2	5.8	6.1	5.8	6.3	6.0	6.6	6.4	7.8	8.9	9.8	10.0	10.1	10.1	9.8	8.7	8.0	7.5	7.1	6.7	7.6	
San Diego, Cal.	4.4	4.8	4.5	4.4	4.6	4.5	4.7	4.5	4.2	4.0	4.2	3.8	4.2	4.7	6.0	7.6	8.9	8.7	7.8	5.9	4.7	3.9	4.1	5.3	
Sandusky, Ohio.	9.8	9.5	9.8	9.4	9.2	9.8	9.2	8.8	8.9	8.9	9.1	8.7	8.4	8.4	7.9	7.6	7.3	7.2	8.3	8.8	8.5	9.1	9.5	8.7	
San Francisco, Cal.	7.0	7.1	6.8	5.2	5.7	6.1	6.4	6.0	6.5	6.5	6.8	6.9	7.1	7.3	7.6	8.1	9.7	10.3	10.9	10.7	10.3	9.5	7.7	7.7	
San Luis Obispo, Cal.	3.0	2.5	2.7	2.8	2.9	3.0	3.1	3.4	3.2	3.2	3.4	3.6	4.8	5.1	6.2	7.5	8.0	6.7	5.6	4.8	4.3	3.4	3.2	4.3	
Santa Fe, N. Mex.	4.7	4.7	4.6	5.3	5.1	5.1	5.0	4.9	4.8	6.0	7.1	8.4	8.6	9.3	9.4	9.8	9.9	10.0	7.0	4.8	4.6	5.2	5.0	6.4	
Sault Ste Marie, Mich.	6.9	7.1	7.4	7.2	7.5	7.1	7.4	7.6	7.1	8.5	9.6	9.7	9.1	9.5	9.6	8.8	8.7	8.2	7.6	7.5	7.6	7.0	7.2	7.9	
Savannah, Ga.	7.7	7.3	7.8	8.3	8.2	8.3	8.2	7.8	7.8	8.5	9.2	9.0	9.3	10.1	9.8	10.1	9.2	7.9	8.2	7.9	8.2	8.1	8.5		
Seattle, Wash.	5.1	5.0	5.3	5.5	5.5	5.1	5.4	5.5	5.7	5.9	6.1	6.0	6.8	6.9	6.9	6.3	6.6	6.4	5.7	5.1	5.5	5.9	5.9		
Shreveport, La.	6.3	6.8	6.4	5.5	5.7	5.9	5.6	5.9	6.5	8.0	8.1	8.5	8.4	8.1	8.5	8.3	7.8	6.4	6.9	7.5	7.1	7.0	7.1		
Sioux City, Iowa.	10.4	11.4	11.5	11.1	10.6	10.9	10.4	10.8	11.0	10.9	11.3	11.5	12.5	12.8	13.0	12.6	12.1	10.6	9.3	9.9	10.7	11.1	11.1	11.1	
Spokane, Wash.	4.4	4.5	4.7	4.2	4.0	3.8	3.2	3.6	3.9	3.7	4.0	4.0	4.0	4.0	4.8	5.6	6.0	6.3	6.4	5.7	5.9	5.3	4.9	4.8	
Springfield, Ill.	10.0	9.4	9.1	8.6	8.6	8.7	9.0	9.4	9.5	10.3	11.2	11.7	12.1	12.2	12.3	12.4	11.6	10.5	10.2	10.6	10.7	10.3	10.0	9.9	
Springfield, Mo.	9.9	10.1	10.1	10.3	10.5	10.8	11.0	11.8	11.7	12.0	12.3	12.7	12.5	12.8	13.2	13.0	12.3	11.7	10.0	10.8	10.7	11.1	10.5	11.4	
Tampa, Fla.	5.1	5.3	5.2	5.4	5.5	5.2	5.1	5.6	6.8	7.8	8.6	8.4	8.2	7.8	7.4	7.2	6.3	5.8	5.7	5.7	5.6	5.1	5.1	6.3	
Tatooish Island, Wash.	11.8	10.9	11.4	11.4	12.0	13.4	18.0	18.1	12.7	13.2	11.7	12.8	13.5	13.7	12.3	18.1	12.4	12.2	11.6	11.9	11.6	12.0	11.9	12.3	
Toledo, Ohio.	9.7	9.0	8.8	9.1	9.1	9.1	9.1	9.2	9.0	8.8	9.6	10.1	10.4	10.2	10.0	10.6	10.4	9.4	9.3	9.0	9.4	9.6	10.1	9.6	
Vicksburg, Miss.	7.4	7.3	7.3	7.2	7.1	7.1	6.8	7.1	7.9	8.3	8.4	7.8	7.8	7.8	8.2	8.5	7.7	6.5	6.1	6.3	7.0	6.7	7.6	7.4	
Vineyard Haven, Mass.	9.9	9.8	9.4	9.8	9.4	9.2	8.5	8.5	9.2	10.2	10.1	10.4	11.1	11.3	10.4	9.9	9.8	8.9	9.2	9.5	10.1	9.9	10.2	9.7	
Walla Walla, Wash.	5.8	6.0	6.0	5.5	5.6	5.5	5.3	4.1	4.5	5.0	5.3	4.1	4.5	5.0	6.3	6.9	5.9	6.1	5.8	5.8	5.6	5.9	5.7	5.7	
Washington, D. C.	6.0	5.8	6.0	5.4	5.2	5.0	5.6	5.5	6.0	7.7	8.1	8.2	8.4	8.2	8.1	8.0	6.9	6.3	5.7	5.5	4.9	4.8	4.6	5.0	6.3
Wichita, Kans.	9.9	10.6	10.4	10.4	9.9	10.1	10.0	9.9	11.1	11.8	12.5	13.4	13.0	13.4	13.1	11.9	10.0	8.8	8.0	8.7	9.2	9.4	9.3	10.6	
Williston, N. Dak.	7.1	7.5	7.0	6.9	6.0	6.5	7.2	7.2	7.8	8.3	8.8	9.7	10.1	10.2	11.6	12.2	11.5	10.5	10.2	9.8	8.4	8.1	8.2	7.6	
Wilmington, N. C.	7.4	7.7	7.6	7.5	8.1	8.4	8.0	8.0	8.9	9.1	10.0	10.3	11.2	11.3	11.5	10.7	9.9	8.4	8.3	8.4	8.4	8.0	8.0	8.9	
Winnemucca, Nev.	7.9	8.4	9.4	9.2	8.5	8.5	8.5	8.5	9.2	9.2	10.8	9.9	9.8	10.2	10.8	10.6	10.5	10.4	9.3	7.5	8.0	8.0	7.5	9.1	
Woods Hole, Mass.	15.2	15.3	15.5	15.8	14.9	14.8	14.3	13.2	13.7	13.6	13.7	14.1	15.4	15.5	14.9	14.1	13.8	14.7	14.8	15.1	15.7	14.8	14.4	14.7	
Yuma, Ariz.	4.1	4.0	4.8	4.5	5.0	5.6	5.1	6.0	6.1	5.6	5.9	8.2	10.2	10.7	10.6	10.6	10.2	9.9	8.9	8.0	5.7	5.1	5.0	4.8	

TABLE VII.—Heights of rivers above low-water mark, November, 1895.

Stations.	Distance to mouth of river.	Danger point on gauge.	Highest water.		Lowest water.		Stations.	Distance to mouth of river.	Danger point on gauge.	Highest water.		Lowest water.	
			Height.	Date.	Height.	Date.							

TABLE VIII.—Temperature of the wet-bulb thermometer, November, 1895.

Stations.	Local time faster or slower than 75th meridian time.	8 A. M.			8 P. M.			Stations.	Local time faster or slower than 75th meridian time.	8 A. M.			8 P. M.								
		Max.	Min.	Mean.	Max.	Min.	Mean.			Max.	Min.	Mean.	Max.	Min.	Mean.						
<i>New England.</i>																					
Eastport, Me.	h. m.	0	0	0	0	0	0	Up. Lake Region—Con.	h. m.	0	0	0	0	0	0						
Portland, Me.	32 F.	52	12	37	54	15	37	Green Bay, Wis.	52 S.	45	7	27	50	9	31						
Northfield, Vt.	19 F.	56	14	35	57	19	39	Duluth, Minn.	08 S.	45	—1	24	47	9	38						
Boston, Mass.	9 F.	59	4	29	56	9	33	North Dakota.	1 27 S.	36	—11	19	40	0	23						
Nantucket, Mass.	16 F.	62	20	40	64	23	45	St. Vincent, Minn.	1 29 S.	36	—15	14	35	—1	19						
Woods Hole, Mass.	20 F.	58	24	46	58	26	45	Bismarck, N. Dak.	1 42 S.	36	—10	16	39	—4	20						
Block Island, R. I.	17 F.	58	—	—	59	27	45	Williston, N. Dak.	1 54 S.	36	—11	16	40	—6	19						
New Haven, Conn.	14 F.	57	23	44	59	23	42	<i>Upper Mississippi Valley.</i>													
Albany, N. Y.	8 F.	58	31	39	60	23	42	St. Paul, Minn.	1 12 S.	54	—4	25	49	8	30						
New York, N. Y.	5 F.	60	20	37	63	20	38	La Crosse, Wis.	1 05 S.	50	6	27	56	11	32						
Harrisburg, Pa.	4 F.	63	24	42	61	24	43	Davenport, Iowa.	1 02 S.	48	13	31	56	11	34						
Philadelphia, Pa.	7 S.	64	23	39	65	25	42	Des Moines, Iowa.	1 14 S.	53	1	29	56	15	34						
Baltimore, Md.	0	66	23	41	65	26	44	Keokuk, Iowa.	1 06 S.	49	9	31	58	18	36						
Washington, D. C.	6 S.	65	25	41	64	29	43	Cairo, Ill.	58 S.	60	22	39	58	12	35						
Lynchburg, Va.	8 S.	65	25	40	64	28	43	Springfield, Ill.	58 S.	55	16	32	58	16	35						
Norfolk, Va.	16 S.	62	25	41	65	23	42	Hannibal, Mo.	1 05 S.	57	12	33	58	11	35						
South Atlantic States.	5 S.	67	28	48	68	24	49	St. Louis, Mo.	1 01 S.	59	18	36	62	23	40						
Charlotte, N. C.	23 S.	64	26	43	67	28	47	<i>Missouri Valley.</i>													
Hatteras, N. C.	2 S.	72	33	55	71	37	55	Columbia, Mo.	1 09 S.	—	—	—	57	16	38						
Kittyhawk, N. C.	3 S.	69	30	53	69	24	53	Kansas City, Mo.	1 18 S.	54	10	33	61	19	40						
Raleigh, N. C.	14 S.	66	27	44	68	29	48	Springfield, Mo.	1 13 S.	58	16	36	60	21	40						
Wilmington, N. C.	12 S.	70	30	49	69	35	53	Omaha, Nebr.	1 24 S.	56	4	20	54	18	36						
Charleston, S. C.	20 S.	68	31	51	69	39	55	Sioux City, Iowa.	1 26 S.	55	2	25	52	11	31						
Augusta, Ga.	27 S.	66	30	46	67	33	50	Pierre, S. Dak.	1 41 S.	42	2	22	45	11	29						
Savannah, Ga.	24 S.	69	33	50	70	37	54	Huron, S. Dak.	1 32 S.	55	—3	31	46	5	27						
Jacksonville, Fla.	26 S.	68	34	54	71	40	57	<i>Northern Slope.</i>													
Florida Peninsula.	—	—	—	—	—	—	—	Havre, Mont.	2 19 S.	45	0	24	46	4	27						
Jupiter, Fla.	20 S.	75	45	68	74	49	68	Miles City, Mont.	2 03 S.	43	—5	23	48	6	29						
Key West, Fla.	27 S.	78	55	70	77	53	70	Helena, Mont.	2 28 S.	45	1	26	50	5	23						
Tampa, Fla.	30 S.	73	41	60	74	47	61	Rapid City, S. Dak.	1 58 S.	43	4	22	47	1	27						
Eastern Gulf States.	—	—	—	—	—	—	—	Cheyenne, Wyo.	1 59 S.	42	—2	25	43	—	—						
Atlanta, Ga.	37 S.	63	27	45	65	30	50	Lander, Wyo.	2 15 S.	36	8	16	40	2	31						
Pensacola, Fla.	49 S.	70	30	50	71	39	56	North Platte, Nebr.	1 43 S.	41	0	23	46	10	33						
Mobile, Ala.	52 S.	69	30	49	69	39	55	<i>Middle Slope.</i>													
Montgomery, Ala.	45 S.	65	26	46	66	35	51	Denver, Colo.	2 00 S.	37	6	24	41	10	32						
Meridian, Miss.	55 S.	68	25	45	68	34	50	Pueblo, Colo.	1 58 S.	38	10	24	43	14	33						
Vicksburg, Miss.	1 08 S.	66	29	47	67	38	53	Concordia, Kans.	1 31 S.	54	5	30	55	16	36						
New Orleans, La.	1 00 S.	69	34	53	69	41	56	Dodge City, Kans.	1 40 S.	52	10	30	59	14	37						
Western Gulf States.	—	—	—	—	—	—	—	Wichita, Kans.	1 29 S.	57	14	34	61	23	41						
Shreveport, La.	1 14 S.	64	28	46	66	35	51	Oklahoma, Okla.	1 30 S.	62	12	37	63	26	44						
Fort Smith, Ark.	1 17 S.	60	23	40	61	28	48	<i>Southern Slope.</i>													
Little Rock, Ark.	1 08 S.	63	26	43	65	33	60	Abilene, Tex.	1 39 S.	62	17	40	65	23	46						
Corpus Christi, Tex.	1 30 S.	70	35	55	72	43	60	Amarillo, Tex.	1 47 S.	42	15	36	50	17	38						
Galveston, Tex.	1 19 S.	68	34	58	70	44	58	El Paso, Tex.	2 06 S.	49	28	35	50	36	44						
Palestine, Tex.	1 23 S.	65	27	45	67	38	51	Santa Fe, N. Mex.	2 04 S.	38	9	35	39	16	30						
San Antonio, Tex.	1 34 S.	67	30	48	68	37	53	Phoenix, Ariz.	2 28 S.	57	35	45	60	45	53						
Ohio Valley and Tenn.	—	—	—	—	—	—	—	Yuma, Ariz.	2 38 S.	56	34	44	59	42	52						
Chattanooga, Tenn.	41 S.	63	27	42	64	31	47	Independence, Cal.	2 53 S.	43	22	33	48	28	39						
Knoxville, Tenn.	38 S.	63	26	40	63	33	46	Carson City, Nev.	2 59 S.	39	15	26	46	23	37						
Memphis, Tenn.	1 00 S.	64	27	43	66	31	48	Winnebucca, Nev.	2 51 S.	36	7	21	44	21	34						
Nashville, Tenn.	47 S.	63	23	41	65	30	46	Salt Lake City, Utah.	2 27 S.	41	20	31	44	23	35						
Lexington, Ky.	38 S.	61	21	38	63	25	42	<i>Northern Plateau.</i>													
Louisville, Ky.	43 S.	61	23	38	63	25	42	Baker City, Oreg.	2 51 S.	38	10	25	44	22	38						
Indianapolis, Ind.	44 S.	57	18	36	61	20	39	Idaho Falls, Idaho.	2 28 S.	36	6	40	46	13	28						
Cincinnati, Ohio.	38 S.	59	20	36	62	23	41	Spokane, Wash.	2 49 S.	48	13	31	49	24	36						
Columbus, Ohio.	39 S.	58	18	36	60	26	40	Walla Walla, Wash.	2 53 S.	50	23	37	54	23	32						
Pittsburg, Pa.	26 S.	61	22	39	67	23	43	<i>Mid. Pac. Coast Region.</i>													
Parkersburg, W. Va.	26 S.	62	23	36	64	25	42	Fort Cabay, Wash.	3 16 S.	51	37	44	51	41	46						
Lower Lake Region.	—	—	—	—	—	—	—	Port Angeles, Wash.	3 14 S.	51	30	40	54	31	42						
Buffalo, N. Y.	15 S.	56	14	35	56	19	37	Seattle, Wash.	3 09 S.	54	30	41	56	36	44						
Oswego, N. Y.	6 S.	59	18	35	55	21	36	Tatoosh Island, Wash.	3 19 S.	53	38	44	54	35	45						
Rochester, N. Y.	11 S.	58	16	35	56	16	36	Portland, Oreg.	3 11 S.	54	28	39	57	33	43						
Erie, Pa.	20 S.	59	22	36	59	20	38	Roseburg, Oreg.	3 13 S.	51	23	36	55	34	43						
Cleveland, Ohio.	27 S.	60	19	35	61	21	38	<i>S. Pac. Coast Region.</i>													
Sandusky, Ohio.	20 S.	56	14	34	59	23	38	Eureka, Cal.	3 17 S.	50	35	44	57	45	49						
Toledo, Ohio.	34 S.	55	15	33	61	22	36	Red Bluff, Cal.	3 09 S.	52	30	41	58	48	51						
Detroit, Mich.	22 S.	54	10	32	59	18	36	Sacramento, Cal.	3 06 S.	50	20	42	58	40	51						
Upper Lake Region.	—	—	—	—	—	—	—	San Francisco, Cal.	3 10 S.	55	41	46	60	42	51						
Alpena, Mich.	34 S.	44	7	29	54	9	32	<i>S. Pac. Coast Region.</i>													
Grand Haven, Mich.	45 S.	52	14	33	54	20	35	Fresno, Cal.	2 59 S.	48	28	40	55	40	49						
Marquette, Mich.	49 S.	48	10	28	48	13	30	Los Angeles, Cal.	2 53 S.	53	33	45	58	42	53						
Port Huron, Mich.	30 S.	48	10	31	57	15	34	San Diego, Cal.	2 49 S.	55	27	47	52	37	51						
Sault Ste. Marie, Mich.	37 S.	45	0	26	46	6	33	San Luis Obispo, Cal.	3 03 S.	52	27	42	55	41	51						
Chicago, Ill.	50 S.	52	14	32	52	10	33	—	—	—	—	—	—	—							
Milwaukee, Wis.	51 S.	54	12	30	50	10	33	—	—	—	—	—	—	—							

TABLE IX.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during November, 1895.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>					o	Hours.						o	Hours.
Eastport, Me.	16	18	13	28	s. 82 w.	15	Milwaukee, Wis.	19	23	6	23	s. 77 w.	18
Portland, Me.	23	20	6	23	n. 82 w.	22	Green Bay, Wis.	17	27	8	23	s. 54 w.	17
Northfield, Vt.	16	34	2	23	s. 49 w.	33	Duluth, Minn.	19	20	7	30	s. 88 w.	23
Boston, Mass.	18	12	8	31	n. 75 w.	24							
Nantucket, Mass.	18	17	19	19	n.	1	<i>North Dakota.</i>						
Woods Hole, Mass.*	8	16	5	9	s. 27 w.	9	Moorhead, Minn.	19	19	5	24	w.	12
Block Island, R. I.	21	16	14	26	n. 67 w.	13	St. Vincent, Minn.	24	15	7	25	n. 68 w.	20
New Haven, Conn.	30	15	8	18	n. 34 w.	18	Bismarck, N. Dak.	30	11	13	25	n. 33 w.	23
							Williston, N. Dak.	21	19	12	21	n. 77 w.	9
<i>Middle Atlantic States.</i>													
Albany, N. Y.	23	24	5	13	s. 83 w.	8	<i>Upper Mississippi Valley.</i>						
New York, N. Y.	19	19	17	16	s. e.	1	St. Paul, Minn.	15	24	18	23	s. 30 w.	10
Harrisburg, Pa.	17	11	20	21	n. 9 w.	6	La Crosse, Wis.	21	29	3	10	s. 41 w.	11
Philadelphia, Pa.	25	16	14	17	n. 18 w.	10	Davenport, Iowa.	18	19	17	19	s. 63 w.	2
Baltimore, Md.	30	10	16	14	n. 6 e.	20	Des Moines, Iowa.	21	23	16	14	s. 63 e.	2
Washington, D. C.	29	14	12	14	n. 8 w.	15	Keokuk, Iowa.	21	23	12	17	s. 68 w.	5
Lynchburg, Va.	29	17	24	15	n. 61 e.	10	Cairo, Ill.	20	25	11	13	s. 22 w.	14
Norfolk, Va.	31	15	15	14	n. 3 e.	16	Springfield, Ill.	20	30	5	15	s. 45 w.	5
							Hannibal, Mo.	16	26	18	15	s. 11 w.	10
<i>South Atlantic States.</i>							St. Louis, Mo.	19	23	17	14	s. 37 e.	5
Charlotte, N. C.	22	18	33	4	n. 82 e.	23	<i>Missouri Valley.</i>						
Hatteras, N. C.	23	11	14	16	n. 5 w.	22	Columbia, Mo.*	10	13	11	5	s. 63 e.	7
Kittyhawk, N. C.	27	15	16	21	n. 23 w.	13	Kansas City, Mo.	21	27	14	9	s. 40 e.	9
Raleigh, N. C.	30	16	10	14	n. 16 w.	15	Springfield, Mo.	18	29	18	11	s. 35 e.	12
Wilmington, N. C.	29	13	17	19	n. 7 w.	16	Omaha, Nebr.	25	21	14	11	n. 37 e.	5
Charleston, S. C.	31	11	19	12	n. 19 e.	21	Sioux City, Iowa.	23	24	15	11	s. 76 e.	4
Augusta, Ga.	26	13	9	21	n. 39 w.	19	Pierre, S. Dak.	22	16	13	18	s. 40 w.	1
Savannah, Ga.	30	14	13	16	n. 11 w.	16	Huron, S. Dak.	19	19	20	19	e.	
Jacksonville, Fla.	37	5	15	14	n. 2 e.	32							
							<i>Northern Slope.</i>						
<i>Florida Peninsula.</i>							Havre, Mont.	24	13	9	31	n. 64 w.	25
Jupiter, Fla.	30	13	16	12	n. 13 e.	18	Miles City, Mont.	15	24	12	18	s. 34 w.	11
Key West, Fla.	38	8	30	3	n. 38 e.	44	Helena, Mont.	18	20	2	39	s. 81 w.	38
Tampa, Fla.	46	3	10	11	n. 1 w.	43	Rapid City, S. Dak.	13	12	6	37	w.	31
							Cheyenne, Wyo.	27	9	5	36	n. 60 w.	36
<i>Eastern Gulf States.</i>							Lander, Wyo.	14	24	5	27	s. 66 w.	24
Atlanta, Ga.	23	12	23	20	n. 15 e.	11	North Platte, Nebr.	17	13	7	33	n. 81 w.	26
Pensacola, Fla.	30	11	22	11	n. 30 e.	22	<i>Middle Slope.</i>						
Mobile, Ala.	34	13	13	11	n. 5 e.	22	Denver, Colo.	15	24	14	17	s. 18 w.	10
Montgomery, Ala.	33	11	27	14	n. 31 e.	25	Pueblo, Colo.	26	13	16	20	n. 16 w.	12
Meridian, Miss.	25	16	23	9	n. 57 e.	17	Concordia, Kans.	19	27	7	16	s. 48 w.	12
Vicksburg, Miss.	18	21	20	8	n. 82 e.	21	Dodge City, Kans.	29	17	15	16	n. 5 w.	12
New Orleans, La.	26	13	22	8	n. 59 e.	25	Wichita, Kans.	23	29	6	9	s. 27 w.	7
							Oklahoma, Okla.	22	30	6	12	s. 37 w.	10
<i>Western Gulf States.</i>							<i>Southern Slope.</i>						
Shreveport, La.	16	26	19	17	s. 11 e.	10	Abilene, Tex.	23	26	7	13	s. 56 w.	7
Fort Smith, Ark.	13	9	20	16	n. 77 e.	13	Amarillo, Tex.	20	27	3	22	s. 70 w.	20
Little Rock, Ark.	21	20	16	14	n. 63 e.	2							
Corpus Christi, Tex.	26	17	20	14	n. 37 e.	10	El Paso, Tex.	19	5	19	28	n. 33 w.	17
Galveston, Tex.	22	18	23	12	n. 73 e.	14	Santa Fe, N. Mex.	22	18	28	12	n. 74 e.	15
Palestine, Tex.	23	24	16	12	s. 78 e.	4	Phoenix, Ariz.	4	40	19	15	s. 6 e.	36
San Antonio, Tex.	31	15	18	12	n. 21 e.	17	Yuma, Ariz.	36	7	18	11	n. 14 e.	30
							Independence, Cal.	27	14	2	35	n. 63 w.	36
<i>Ohio Valley and Tennessee.</i>							<i>Middle Plateau.</i>						
Chattanooga, Tenn.	19	20	14	19	s. 73 w.	5	Carson City, Nev.	23	16	15	19	s. 34 w.	7
Knoxville, Tenn.	29	7	17	17	n. 1.	22	Winnemucca, Nev.	23	14	20	17	n. 18 e.	10
Memphis, Tenn.	20	21	21	11	s. 84 e.	10	Salt Lake City, Utah.	13	26	20	15	s. 21 e.	14
Nashville, Tenn.	15	21	19	19	s.	6	Baker City, Oreg.	15	30	9	20	s. 36 w.	19
Lexington, Ky.	10	26	20	16	s. 14 e.	16	Idaho Falls, Idaho.	21	23	5	12	s. 54 w.	9
Louisville, Ky.	15	23	23	10	s. 58 e.	15	Spokane, Wash.	12	28	10	23	s. 48 w.	19
Indianapolis, Ind.	18	27	24	15	s. 33 e.	17	Walla Walla, Wash.	7	38	8	12	s. 7 w.	31
Cincinnati, Ohio.	17	26	25	8	s. 63 e.	19							
哥伦布, Ohio.	14	18	23	14	s. 66 e.	10							
Pittsburg, Pa.	15	21	16	21	s. 40 w.	8							
Parkersburg, W. Va.	13	18	21	14	s. 54 e.	9							
<i>Lower Lake Region.</i>													
Buffalo, N. Y.	13	26	16	23	s. 27 w.	16	Fort Canby, Wash.	19	19	21	11	e.	10
Oswego, N. Y.	11	30	12	14	s. 6 w.	19	Port Angeles, Wash.	2	46	13	10	s. 4 e.	44
Rochester, N. Y.	8	26	9	30	s. 49 w.	28	Seattle, Wash.	18	31	16	7	s. 35 e.	16
Erie, Pa.	12	33	9	18	s. 23 w.	23	Tatoosh Island, Wash.	2	17	36	11	s. 59 e.	29
Cleveland, Ohio.	8	28	27	15	s. 31 e.	22	Portland, Oreg.	17	23	23	17	s. 45 e.	8
Sandusky, Ohio.	15	25	10	21	s. 40 w.	17	Roseburg, Oreg.	13	23	21	18	s. 15 e.	11
Toledo, Ohio.	16	27	10	23	s. 50 w.	17							
Detroit, Mich.	18	27	3	26	s. 69 w.	25							
<i>Upper Lake Region.</i>													
Alpena, Mich.	16	25	8	25	s. 62 w.	19	Eureka, Cal.	14	19	21	18	s. 31 e.	6
Grand Haven, Mich.	19	21	26	11	s. 82 e.	15	Red Bluff, Cal.	36	9	7	22	n. 29 w.	31
Marquette, Mich.	17	21	5	27	s. 80 w.	22	Sacramento, Cal.	22	24	20	6	s. 83 e.	14
Port Huron, Mich.	15	29	11	17	s. 33 w.	15	San Francisco, Cal.	26	6	9	28	n. 44 w.	28
Sault Ste. Marie, Mich.	16	34	28	18	s. 63 e.	17							
Chicago, Ill.	23	25	6	17	s. 80 w.	11	<i>South Pacific Coast Region.</i>						
							Fresno, Cal.	17	4	27	33	n. 31 e.	14
							Los Angeles, Cal.	25	4	18	33	n. 13 w.	23
							San Diego, Cal.	26	5	18	26	n. 18 w.	23
							San Luis Obispo, Cal.	38	8	5	14	n. 17 w.	31

* From observations at 8 p. m. only.

TABLE X.—*Thunderstorms and auroras, November, 1895.*

States.	No. of stations.																														Total.	No.	Days.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Alabama	55	T.																															0	0	T.
Arizona	43	T.	1	1														2	1												0	0	A.		
Arkansas	50	T.																1													0	0	A.		
California	125	T.		1															1												0	0	A.		
Colorado	86	T.			3												1	1	1											0	0	A.			
Connecticut	23	T.																	1												0	0	A.		
Delaware	7	T.																		1											0	0	A.		
Dist. of Columbia	4	T.																													0	0	A.		
Florida	36	T.	5						2	2	1	4	1	1															0	0	A.				
Georgia	58	T.								1	1	1																	0	0	A.				
Idaho	32	T.																1											0	0	A.				
Illinois	93	T.																	1										0	0	A.				
Indiana	44	T.																	3										0	0	A.				
Indian Territory.	8	T.																											0	0	A.				
Iowa	96	T.																											0	0	A.				
Kansas	68	T.																1										0	0	A.					
Kentucky	40	T.																											0	0	A.				
Louisiana	56	T.																											0	0	A.				
Maine	19	T.																											0	0	A.				
Maryland	36	T.																1	3	2								0	0	A.					
Massachusetts	88	T.																3		1								0	0	A.					
Michigan	85	T.																1	2	4	4	1						0	0	A.					
Minnesota	70	T.																9	5	3	2							0	0	A.					
Mississippi	51	T.																1	1	1							0	0	A.						
Missouri	96	T.																1	5	1							0	0	A.						
Montana	38	T.																2	3	4	4	1					0	0	A.						
Nebraska	125	T.																1	1	1	1	1					0	0	A.						
Nevada	51	T.																										0	0	A.					
New Hampshire	24	T.																										0	0	A.					
New Jersey	53	T.																7	1	1							0	0	A.						
New Mexico	33	T.																1									0	0	A.						
New York	84	T.																1	6	3	1						0	0	A.						
North Carolina	53	T.																2	2	1	1	1					0	0	A.						
North Dakota	36	T.																1									0	0	A.						
Ohio	139	T.																10	10	2		2	1				0	0	A.						
Oklahoma	20	T.																1	2	1							0	0	A.						
Oregon	65	T.																										0	0	A.					
Pennsylvania	104	T.																										0	0	A.					
Rhode Island	8	T.																										0	0	A.					
South Carolina	40	T.																2	2	1	1						0	0	A.						
South Dakota	44	T.																9									0	0	A.						
Tennessee	45	T.																1	7	7	2	1	1				0	0	A.						
Texas	90	T.																	1								0	0	A.						
Utah	34	T.																										0	0	A.					
Vermont	16	T.																										0	0	A.					
Virginia	38	T.																	1	3	1						0	0	A.						
Washington	48	T.																	1								0	0	A.						
West Virginia	38	T.																1									0	0	A.						
Wisconsin	59	T.																1	18	8	3	1	1	1	1	1	0	0	A.						
Wyoming	11	T.																3									0	0	A.						
Sums	2,726	T.	5	3	2	7	29	7	8	9	2	3	3	4	0	1	14	1	2	8	0	6	2	3	2	18	5	22	59	7	2	4	3	2	224
		A.	2	1	2	2	1	2	0	6	142	63	39	21	5	3	.5	2	2	0	2	2	4	3	2	28	2	1	2	1	2	317			

TABLE XI.—Hourly sunshine as deduced from sunshine recorders, November, 1895.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Monthly summary.			
		A. M.								P. M.								Instrumental record.			
		5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	Personal estimate.
Atlanta, Ga.	T.	32	37	59	73	78	74	79	77	68	63	47	47	33	.....	.....	Hours.	Hours.	.....	.....
Baltimore, Md.	T.	19	27	31	40	48	50	51	57	47	47	46	46	33	.....	.....	200.6	312.3	52	58
Bismarck, N. Dak.	P.	11	4	11	20	25	28	28	24	11	0	0	0	0	0	0	126.3	300.7	45	49	
Boston, Mass.	T.	12	17	22	27	37	48	46	48	47	45	39	32	32	32	32	54.5	281.2	19	31	
Buffalo, N. Y.	T.	14	16	27	39	48	42	43	40	34	19	7	7	7	7	7	109.8	298.7	37	34	
Chicago, Ill.	T.	31	27	27	38	46	51	52	50	47	35	37	37	36	36	36	92.7	292.1	33	36	
Cincinnati, Ohio	T.	44	41	41	37	48	44	44	43	38	34	36	36	36	36	36	121.2	294.9	41	31	
Cleveland, Ohio	P.	29	26	30	38	39	31	31	28	26	22	22	22	22	22	22	123.0	301.4	41	37	
Columbus, Ohio	T.	27	19	49	57	54	61	59	51	51	51	51	51	51	51	51	84.2	296.2	28	32	
Denver, Colo.	P.	64	57	69	78	81	79	59	66	68	68	66	66	66	66	66	135.3	239.7	45	31	
Des Moines, Iowa	T.	45	38	42	44	48	51	51	51	51	51	51	51	51	51	51	203.9	300.1	68	53	
Detroit, Mich.	T.	56	43	47	54	61	65	60	58	44	40	35	35	35	35	35	132.0	295.5	45	32	
Dodge City, Kans.	P.	56	58	68	69	73	72	72	72	72	73	73	73	73	73	73	149.9	294.1	51	40	
Eastport, Me.	P.	29	20	26	36	36	38	38	38	38	38	38	38	38	38	38	209.6	304.1	69	64	
Eureka, Cal.	P.	44	40	52	61	62	71	74	78	73	73	73	73	73	73	73	107.2	297.0	37	30	
Galveston, Tex.	T.	17	27	47	56	59	54	54	54	54	54	54	54	54	54	54	188.7	297.7	63	58	
Helena, Mont.	P.	10	17	22	38	43	47	48	48	48	48	48	48	48	48	48	153.6	291.2	48	46	
Kansas City, Mo.	T.	45	40	43	51	51	51	51	51	51	51	51	51	51	51	51	107.2	291.6	38	34	
Little Rock, Ark.	T.	48	43	47	50	50	50	50	50	50	50	50	50	50	50	50	136.5	301.6	45	44	
Louisville, Ky.	T.	33	27	30	36	36	36	36	36	36	36	36	36	36	36	36	107.2	310.7	54	43	
New Orleans, La.	T.	28	38	57	69	72	70	73	73	73	73	73	73	73	73	73	104.5	308.3	34	39	
New York, N. Y.	T.	20	23	40	49	54	58	60	60	60	60	60	60	60	60	60	181.7	319.9	57	56	
Philadelphia, Pa.	P.	30	39	46	46	56	58	58	58	58	58	58	58	58	58	58	146.3	297.6	49	44	
Phoenix, Ariz.	P.	65	74	84	87	93	93	90	89	89	89	89	89	89	89	89	154.8	299.3	52	43	
Portland, Me.	T.	0	10	40	54	53	53	53	53	53	53	53	53	53	53	53	140.4	290.5	48	38	
Portland, Oreg.	P.	37	18	17	18	30	40	38	42	36	36	36	36	36	36	36	89.3	295.7	31	34	
Rochester, N. Y.	T.	39	32	41	49	59	59	55	55	55	55	55	55	55	55	55	132.5	292.1	51	35	
St. Louis, Mo.	T.	31	29	49	53	53	53	53	53	53	53	53	53	53	53	53	147.8	297.4	50	34	
Salt Lake City, Utah	T.	37	37	38	63	57	57	57	57	57	57	57	57	57	57	57	244.5	314.3	78	70	
San Diego, Cal.	T.	67	70	71	84	87	84	84	84	84	84	84	84	84	84	84	200.8	304.4	66	63	
San Francisco, Cal.	T.	0	24	52	72	73	73	73	73	73	73	73	73	73	73	73	216.7	308.8	70	63	
Santa Fe, N. Mex.	T.	71	64	52	71	70	64	73	74	74	74	74	74	74	74	74	163.1	315.8	52	50	
Savannah, Ga.	P.	38	44	53	56	56	58	58	58	58	58	58	58	58	58	58	186.6	315.2	59	55	
Vicksburg, Miss.	T.	41	42	53	62	67	65	64	66	66	66	66	66	66	66	66	139.1	305.5	46	53	
Washington, D. C.	P.	30	27	36	44	48	45	51	57	58	58	58	58	58	58	58	156.8	311.4	50	48	
Wilmington, N. C.	T.	5	30	48	53	60	60	65	62	59	58	58	58	58	58	58	0	.....	.....	.....

TABLE XII.—Hourly precipitation, November, 1895.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Total.	
	
Atlanta, Ga.*	0.13	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.07	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	0.05	0.05	0.05	0.05	0.05	0.98
Baltimore, Md.*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bismarck, N. Dak.*	0.95	0.75	0.67	0.35	0.25	0.64	0.07	0.08	0.10	0.02	0.02	0.07	0.05	0.21	0.12	0.08	0.31	0.40	0.39	0.25	0.31	0.22	0.40	0.27	6.93
Boston, Mass.	0.95	0.75	0.25	0.25	0.14	0.08	0.18	0.11	0.23	0.20	0.36	0.16	0.04	0.11	0.16	0.11	0.13	0.19	0.13	0.17	0.30	0.22	0.13	0.15	4.34
Buffalo, N. Y.	0.25	0.25	0.25	0.14	0.18	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	4.18
Chicago, Ill.	0.08	0.24	0.28	0.14	0.18	0.25	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	4.57
Cincinnati, Ohio	0.45	0.12	0.08	0.16	0.10	0.13	0.10	0.13	0.10	0.02	0.06	0.09	0.18	0.23	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	4.42
Cleveland, Ohio	0.10	0.16	0.09	0.20	0.18	0.18	0.10	0.08	0.24	0.26	0.20	0.30	0.08	0.11	0.17	0.40	0.34	0.18	0.21	0.19	0.19	0.19	0.19	0.19	4.42
Denver, Colo.*	0.09	0.05	0.08	0.14	0.12	0.17	0.24	0.23	0.26	0.14	0.21	0.10	0.14	0.25	0.18	0.14	0.16	0.16	0.17	0.37	0.23	0.25	0.25	4.19	
Detroit, Mich.	0.09	0.05	0.08	0.14	0.12	0.17	0.24	0.23	0.26	0.14	0.21	0.10	0.14	0.25	0.18	0.14	0.16	0.16	0.17	0.37	0.23	0.25	0.25	4.19	
Dodge City, Kans.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.										
Duluth, Minn.*	0.21	0.28	0.24	0.30	0.50	0.38	0.48	1.04	0.54	0.16	0.15	0.30	0.37	0.16	0.08	0.06	0.04	0.04	0.07	0.11	0.05	0.19	0.25	0.15	6.41
Eastport, Me.	0.21	0.28	0.24	0.30	0.50	0.38	0.48	1.04	0.54	0.16	0.15	0.30	0.37	0.16	0.08	0.06	0.04	0.04	0.07	0.11	0.05	0.19	0.25	0.15	6.41
Galveston, Tex.*	0.58	0.20	0.09	0.07	0.06	0.08	0.14	0.39	0.08	0.07	0.08	0.05	0.11	0.18	0.13	0.19	0.27	0.23	0.67	0.22	1.35	0.45	0.32	6.01	
Indianapolis, Ind.	0.24	0.29	0.19	0.07	0.07	0.12	0.12	0.42	0.16	0.20	0.21	0.20	0.18	0.27	0.24	0.17	0.15	0.28	0.37	0.51	0.39	0.27	0.35	5.63	
Jacksonville, Fla.	0.18	0.01	0.04	0.12	0.11	0.16	0.24	0.23	0.16	0.19	0.11	0.14	0.18	0.18	0.23	0.23	0.19	0.19	0.03	0.16</td					

TABLE XIII.—*Excessive precipitation, by stations, for November, 1895.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Arkansas.						
Hot Springs.	Inches.	Inches.				
Madding.	2.50	24-25				
Malvern.	2.75	25				
Osceola.	3.04	23-24				
Rison.	5.34	24-25				
Connecticut.	2.60	24-25				
Hartford.	2.98	14-15				
Lake Konomoc.	3.48	1				
Southington.	3.60	14-15				
Storrs.	2.49	14-15				
Voluntown.	2.80	1				
Waterbury.	3.02	14-15				
Florida.						
Amelia.	2.77	5-6				
Frostproof.	3.78	5				
Illinois.						
Flora.	2.53	25				
Friend Grove.	2.90	24-25				
Iron.	5.25	24-25				
Indiana.						
Evansville.	2.63	7-8				
Indianapolis.	2.65	25				
Jasper.	3.03	7-8				
Madison.	2.54	8-9				
Marengo.	13.01	5.00	7-8			
Do.	2.60	24				
Seymour.	2.60	8				
Kentucky.						
Henderson.	2.85	24-25				
Paducah b.	2.50	25				
Pleasure Ridge Park.	3.54	24-25				
Louisiana.						
Abbeville.	4.25	23-24				
Cameron.	10.10	9.30	23-24			
Elm Hall.	2.50	3				
Franklin.	3.17	24-25				
Grand Coteau.	2.77	24				
Lake Charles.	12.57	10.00	23-25			
Melville.	2.65	24				
Maine.						
Bar Harbor.	2.90	*				
Massachusetts.						
Attleboro.	4.18	*				
Beverly Farms.	3.13	*				
Blue Hill.	2.98	1				
Boston.	2.87	1				
Brockton b.	2.88	*				
Brockton c.	3.14	*				
Cambridge a.	2.90	*				
Roxbury.	10.44	2.76	*			
Salisbury.	2.59	*				
Wakefield.	3.00	*				
Webster.	2.63	15				
Worcester.	2.59	15				

TABLE XIII.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Mississippi.						
Austin.	Inches.	Inches.				
Natchez.	3.55	25				
Missouri.	3.00	9				
Brunswick.	2.54	5				
Gordonville.	2.98	24-25				
New Madrid.	2.64	24-25				
North Carolina.	2.95	1-2				
Hatteras.	Oregon.					
Hedges.	2.63	8-9				
Pataskala.	2.77	8-9				
Wauseon.	2.88	25-26				
Oklahoma.						
Anadarko.	2.90	6				
Fort Sill.	3.97	4-5				
Guthrie.	2.63	5-6				
Norman.	2.93	5-6				
Oklahoma.	2.76	6-7				
Oregon.	13.25					
Glenora.	13.54					
Nehalem.	2.53	14				
Salmon.	Rhode Island.					
Lonsdale.	3.10	*				
Fawtucket.	4.21	*				
South Carolina.	3.08	7-8				
Santuck.	Tennessee.					
Covington.	5.58	23-25				
Dyersburg.	5.79	24-25				
Memphis.	2.65	24-25				
Mount Carmel.	5.45	23-25				
Trenton.	3.50	24-25				
Texas.						
Angleton.	5.00	23-24				
Brady.	3.35	8-9				
Brazoria.	4.38	23-24				
Columbia.	4.28	23-24				
Corpus Christi.	4.15	23-24				
Galveston.	2.67	23-24				
Graham.	3.77	23-24	1.41	1 00	23	
Grape Vine.	2.58	8				
Stafford.	3.25	24				
Sulphur Springs.	2.90	6				
Virginia.	2.60	8				
Rockymount.	Washington.					
Monte Cristo.	10.93					
Neah Bay.	11.55					

* October 31 to November 1.

TABLE XIV.—*Maximum rainfall in one hour or less, November, 1895.*

Stations.	Maximum rainfall in—					
	5 min.	Date.	10 min.	Date.	1 hour.	Date.
Atlanta, Ga.*	Inch. 0.04	19	Inch. 0.07	19	Inch. 0.12	19
Bismarck, N. Dak.*	0.14	15	0.25	15	0.78	1
Boston, Mass.	0.08	8	0.10	8	0.23	8, 26
Buffalo, N. Y.	0.07	7	0.10	7	0.23	7
Chicago, Ill.	0.06	8, 9	0.10	8, 9	0.40	8
Cincinnati, Ohio.	0.06	25	0.08	25	0.29	25
Cleveland, Ohio.	0.07	25	0.13	25	0.24	25
Denver, Colo.*	0.01	12	0.08	12	0.09	12
Detroit, Mich.	0.14	15	0.21	15	0.65	1
Dodge City, Kans.	0.34	23	0.40	23	1.41	23
Duluth, Minn.*	0.07	25	0.11	25	0.38	25
Eastport, Me.	0.28	5	0.42	5	0.76	5
Galveston, Tex.*	0.09	6	0.14	6	0.54	6
Indianapolis, Ind.	0.07	25	0.10	25	0.37	25
Jacksonville, Fla.	0.03	1	0.04	1, 20	0.17	1
Jupiter, Fla.	0.28	5	0.42	5	0.76	5
Kansas City, Mo.	0.09	6	0.14	6	0.54	6
Key West, Fla.	0.01	25	0.02	25	0.06	25
Little Rock, Ark.	0.07	25	0.10	25	0.37	25
Louisville, Ky.	0.13	23	0.23	23	0.50	8
Memphis, Tenn.*	0.11	25	0.16	25	0.40	25
Milwaukee, Wis.*						

TABLE XIV.—*Maximum rainfall—Continued.*

Stations.	Maximum rainfall in—					
	5 min.	Date.	10 min.	Date.	1 hour.	Date.
Nantucket, Mass.	Inch. 0.15	2	Inch. 0.33	1	Inch. 0.68	1
Nashville, Tenn.	0.13	9	0.22	9	0.49	9
New Orleans, La.	0.08	9	0.11	9	0.26	9
New York, N. Y.	0.14	14	0.19	14	0.54	14
Norfolk, Va.	0.08	10	0.10	10	0.25	12
Omaha, Nebr.*	0.05	7	0.06	7	0.11	7
Philadelphia, Pa.	0.10	26	0.15	26	0.38	26
Pittsburg, Pa.	0.05	23	0.06	23	0.12	23
Portland, Me.	0.10	26	0.15	26	0.40	26
Portland, Oreg.	0.08	26	0.05	26	0.16	26
Rochester, N. Y.	0.08	9	0.05	9	0.23	9
St. Louis, Mo.	0.04	25	0.06	8, 25	0.28	8
St. Paul, Minn.	0.01	18	0.02	18	0.06	13
Salt Lake City, Utah*	0.01	28	0.02	28	0.06	28
San Diego, Cal.	0.07	4	0.10	4, 11	0.25	4
San Francisco, Cal.	0.05	5	0.10	5	0.32	5
Savannah, Ga.	0.15	6	0.27	6	0.71	6
Seattle, Wash.	0.03	20	0.05	20	0.13	20
Vicksburg, Miss.	0.17	25	0.20	25	0.30	25
Washington, D. C.	0.08	10	0.06	10	0.14	10
Wilmington, N. C.	0.13	26	0.20	26	0.28	26

* Record incomplete.